CDP-CX400/CX450

SERVICE MANUAL

Ver 1.1 2001. 10

US Model
Canadian Model
CDP-CX400/CX450
AEP Model
UK Model
E Model
Australian Model
CDP-CX450

Photo; CDP-CX400

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM62-K1BD35A
Base Unit Type	BU-K1BD35A
Optical Pick-up Type	KSM-213BFN

SPECIFICATIONS

Compact disc player

Laser Semiconductor laser (λ = 780 nm)
Emission duration: continuous

Laser output Max 44.6 µW*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up block with 7 mm aperture.

Frequency response 2 Hz to 20 kHz ±0.5 dB

Dynamic range More than 93 dB

Harmonic distortion Less than 0.0045%

Output

	Jack type	Maximum output level	Load impedance
LINE OUT	Phono jacks	2 V (at 50 kΩ)	Over 10 kΩ
DIGITAL OUT (OPTICAL)	Optical output connector	–18 dBm	Wave length: 660 nm
MONITOR OUT	Phono jacks	1 Vp-p	75 Ω, unbalanced sync negative

General

Power requirements

Where purchased	Power requirements
USA, Canadian	120 V AC, 60 Hz
Australia	240 V AC, 50/60 Hz
Europian	230 V AC, 50/60 Hz

Power consumption 16 W (CX400)
18 W (CX450)

Dimensions (approx.) (w/h/d) 430 × 189 × 537 mm (17 × 7 1/2 × 21 1/4 in.) incl. projecting parts

Mass (approx.) 8.8 kg (19 lbs 7 oz.)

Supplied accessories

- Audio cord (1)
- Video cord (1) (CX450)
- Remote commander (remote) (1)
- Size AA (LR6) batteries (3)

Design and specifications are subject to change without notice.

COMPACT DISC PLAYER

9-929-232-12
2001J1600-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTASSA OLET ALTTINA NÄKYMÄTTÖMÄLLE LASERSÄTEIYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLIG LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYLING LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYÁZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATIAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

The following caution label is located inside of the unit.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

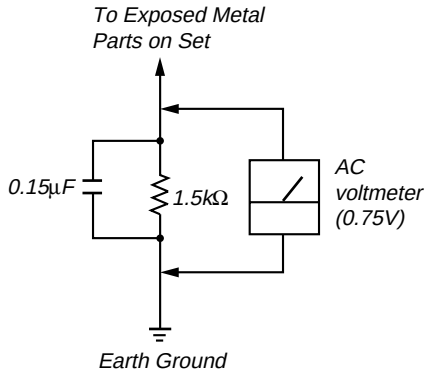
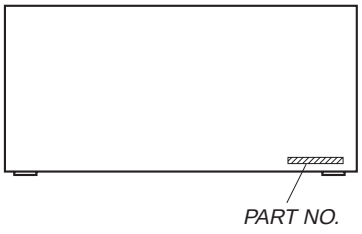


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION — BACK PANEL —



PARTS No.	MODEL
4-226-838-0☐	CX400 : US
4-226-838-1☐	CX400 : CND
4-226-838-2☐	CX450 : US
4-226-838-3☐	CX450 : CND
4-226-838-4☐	CX450 : AEP, UK
4-226-838-5☐	CX450 : AUS
4-226-838-6☐	CX450 : SP, MY

- Abbreviation
  CND : Canadian model
  AUS : Australian model
  SP : Singapore model.
  MY : Malaysia model.

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SERVICE NOTE

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NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repain parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.
The emission check enables continuous checking of the S curve.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output three times.

CD-TEXT TEST DISC

This unit is able to display the TEXT data (character information) written in the CD on its fluorescent indicator tube.
The CD-TEXT TEST DISC (TGCS-313:J-2501-126-A) is used for checking the display.
To check, perform the following procedure.

Checking Method:

1. Turn ON the power, set the disc on the disc table with the side labeled as “test disc” as the right side, close the front cover, and chuck the disc.
2. The following will be displayed on the fluorescent indicator tube. (The display switches each time the TIME/TEXT button is pressed.)
   Display : CD TEXT TEST DISC (Album Title)
3. Press the ▷ button and play back the disc.
4. The following will be displayed on the fluorescent indicator tube. (If nothing is displayed, press the TIME/TEXT button.)
   Display : 1kHz/0 dB/ L&R
5. Rotate ⏮ and ⏭ knob to switch the track. The text data of each track will be displayed.
   For details of the displayed contents for each track, refer to “Table 1 : CD-TEXT TEST DISC Text Data Contents” and “Table 2 : CD-TEXT TEST DISC Recorded Contents and Display”.

Restrictions in CD-TEXT Display

In this unit, some special characters will not be displayed properly. These will be displayed as a space or a character resembling it. For details, refer to “Table 2 : CD-TEXT DISC Recorded Contents and Display”.

Table 1 : CD-TEXT TEST DISC Text Data Contents (TRACKS No. 1 to 41:Normal Characters)

TRACK No.	Displayed Contents	TRACK No.	Displayed Contents
1	1kHz/0dB/L&R	22	1kHz/-90dB/L&R
2	20Hz/0dB/L&R	23	Infinity Zero w/o emphasis//L&R
3	40Hz/0dB/L&R	24	Infinity Zero with emphasis//L&R
4	100Hz/0dB/L&R	25	400Hz+7kHz(4:1)/0dB/L&R
5	200Hz/0dB/L&R	26	400Hz+7kHz(4:1)/-10dB/L&R
6	500Hz/0dB/L&R	27	19kHz+20kHz(1:1)/0dB/L&R
7	1kHz/0dB/L&R	28	19kHz+20kHz(1:1)/-10dB/L&R
8	5kHz/0dB/L&R	29	100Hz/0dB/L*
9	7kHz/0dB/L&R	30	1kHz/0dB/L*
10	10kHz/0dB/L&R	31	10kHz/0dB/L*
11	16kHz/0dB/L&R	32	20kHz/0dB/L*
12	18kHz/0dB/L&R	33	100Hz/0dB/R*
13	20kHz/0dB/L&R	34	1kHz/0dB/R*
14	1kHz/0dB/L&R	35	10kHz/0dB/R*
15	1kHz/-1dB/L&R	36	20kHz/0dB/R*
16	1kHz/-3dB/L&R	37	100Hz Squer Wave//L&R
17	1kHz/-6dB/L&R	38	1kHz Squer Wave//L&R
18	1kHz/-10dB/L&R	39	1kHz w/emphasis/-0.37dB/L&R
19	1kHz/-20dB/L&R	40	5kHz w/emphasis/-4.53dB/L&R
20	1kHz/-60dB/L&R	41	16kHz w/emphasis/-9.04dB/L&R
21	1kHz/-80dB/L&R		

NOTE : The contents of Track No. 1 to 41 are the same as those of the current TEST DISC-their titles are displayed.

Table 2: CD-TEXT TEST DISC Recorded Contents and Display
(In this unit, some special characters cannot be displayed. This is no a fault.)

TRACK No.	Recorded contents	Display
42	! " # $ % & ´ (21h to 27h)1kHz 0dB L&R	← All the same
43	( ) * + , – . / (28h to 2Fh)	← All the same
44	0 1 2 3 4 5 6 7 (30h to 37h)	← All the same
45	8 9 : ; < = > ? (38h to 3Fh)	← All the same
46	@ A B C D E F G (40h to 47h)	← All the same
47	H I J K L M N O (48h to 4Fh)	← All the same
48	P Q R S T U V W (50h to 57h)	← All the same
49	X Y Z [¥] ^ _ (58h to 5Fh)	X Y Z [\ ] ^ _ (58····
50	` a b c d e f g (60h to 57h)	← All the same
51	h i j k l m n o (68h to 6Fh)	← All the same
52	p q r s t u v w (70h to 77h)	← All the same
53	x y z { l } ~ ▌ (78h to 7Fh)	x y z { l } ~ (78····
54	▌ ¡ ¢ £ ¤ ¥ ¦ § (A0h to A7h) 8859-1	¡ ¢ £ ¤ ¥ ¦ § (A0···· ▌ is not displayed
55	♪ ©ª « ¬ ®¯ (A8h to AFh)	♪ (A8···· ©ª « ¬ ®¯ are not displayed
56	· ± ² ³ ´ µ ¶ • (B0h to B7h)	´ µ • (B0···· · ± ² ³ ¶ are not displayed
57	† ¹ º » ¼ ½ ¾ ¿ (B8h to BFh)	† ¿ (B8···· ¹ º » ¼ ½ ¾ are not displayed
58	À Á Â Ã Ä Å Æ Ç (C0h to C7h)	← All the same
59	È É Ê Ë Ì Í Î Ï (C8h to CFh)	← All the same
60	Ð Ñ Ò Ó Ô Õ Ö × (D0h to D7h)	← All the same
61	Ø Ù Ú Û Ü Ý Þ ß (D8h to DFh)	Φ Ù Ú Û Ü Ý Þ ß (D8····
62	à á â ã ä å æ ç (E0h to E7h)	← All the same
63	è é ê ë ì í î ï (E8h to FFh)	← All the same
64	ð ñ ò ó ô õ ö ÷ (F0h to F7h)	ð ñ ò ó ô õ ö ÷ (F0····
65	ø ù ú û ü ý þ ÿ (F8h to FFh)	← All the same
66	No.66	← All the same
67	No.67	← All the same
to	to	to
99	No.99	← All the same

SECTION 2
GENERAL

Front Panel

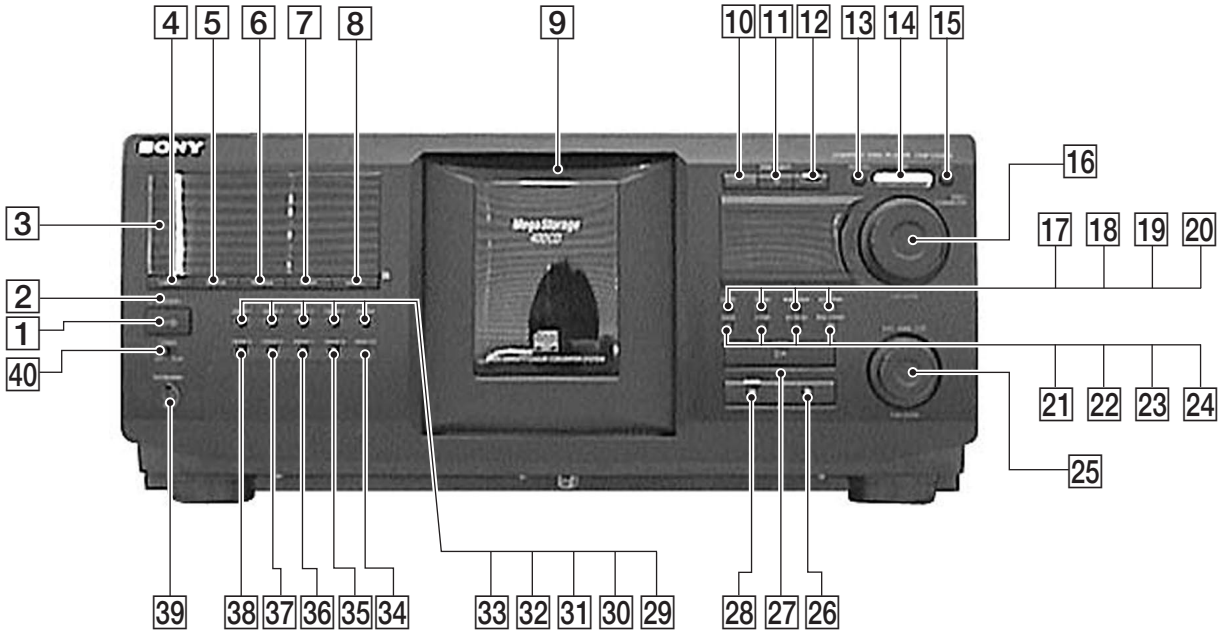


Photo: CDP-CX400

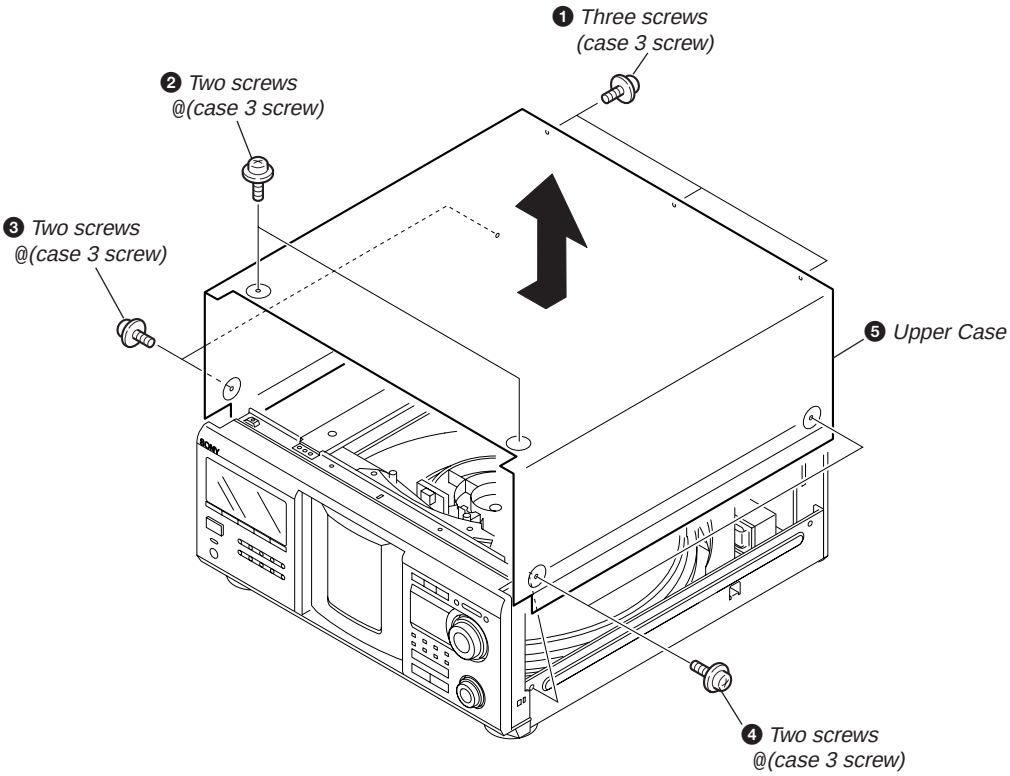
LOCATION OF PARTS AND CONTROLS

1 I/⏻ (power) button
2 STANDBY indicator
3 Display window
4 CONTINUE button
5 SHUFFLE button
6 PROGRAM button
7 REPEAT button
8 SCROLL button
9 Front cover
10 OPEN/CLOSE button
11 DISC EJECT button
12 EASY PLAY button and indicator
13 MENU/NO button
14 +100 button
15 YES button
16 DISC/CHARACTER/PUSH ENTER knob and button
17 CHECK button
18 CLEAR button
19 NAME SEARCH button
20 ARTIST MODE button and indicator
21 FADER button
22 X-FADE button
23 NO DELAY button
24 MEGA CONTROL button and indicator
25 ⏮ AMS ⏭/PUSH ENTER knob and button
26 ■ (stop) button
27 ▷ (play) button and indicator
28 ❚❚ (pause) button and indicator
29 HIT LIST button and indicator
30 GROUP 4 button and indicator
31 GROUP 3 button and indicator
32 GROUP 2 button and indicator
33 GROUP 1 button and indicator
34 GROUP FILE button
35 GROUP 8 button and indicator
36 GROUP 7 button and indicator
37 GROUP 6 button and indicator
38 GROUP 5 button and indicator
39 KEYBOARD jack
40 TIMER OFF/PLAY switch

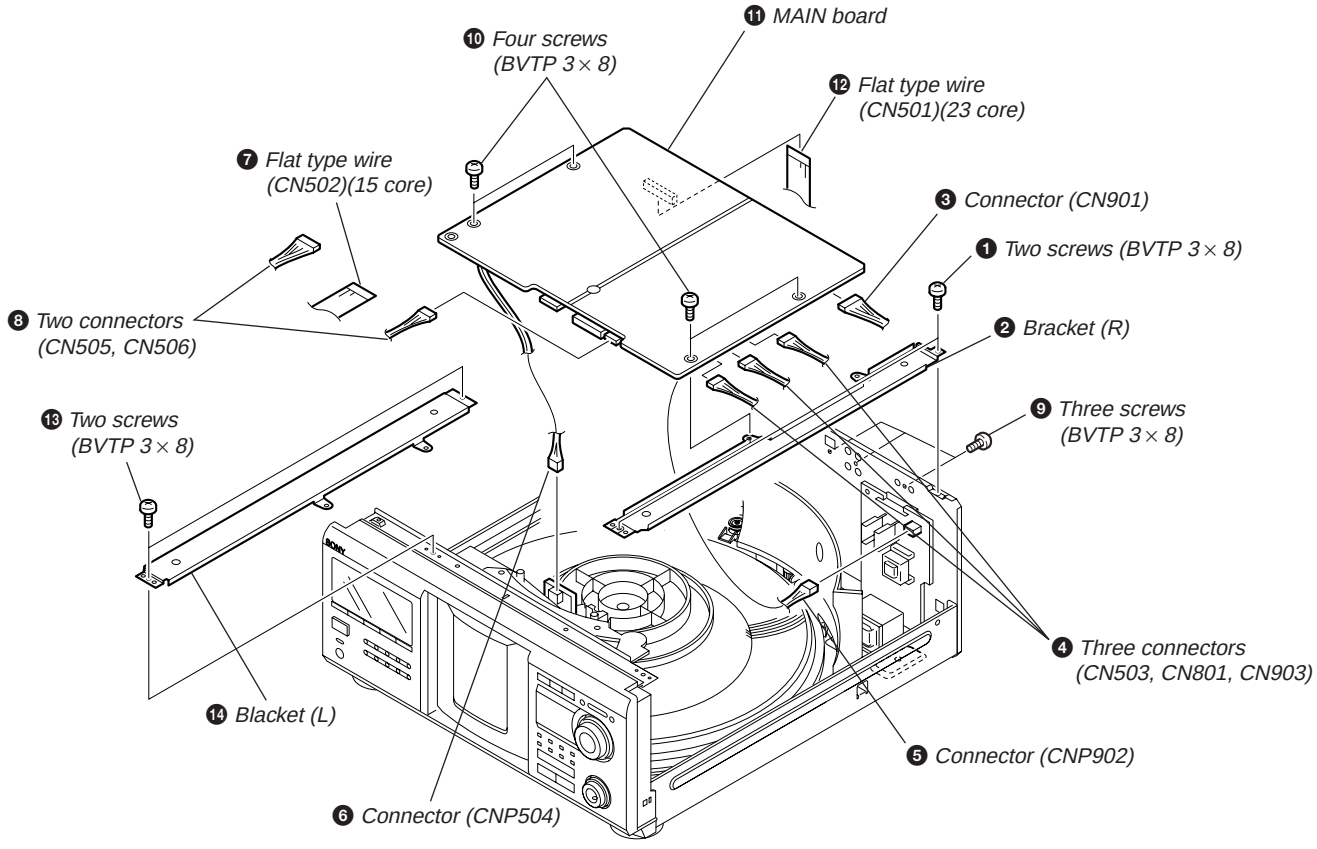
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

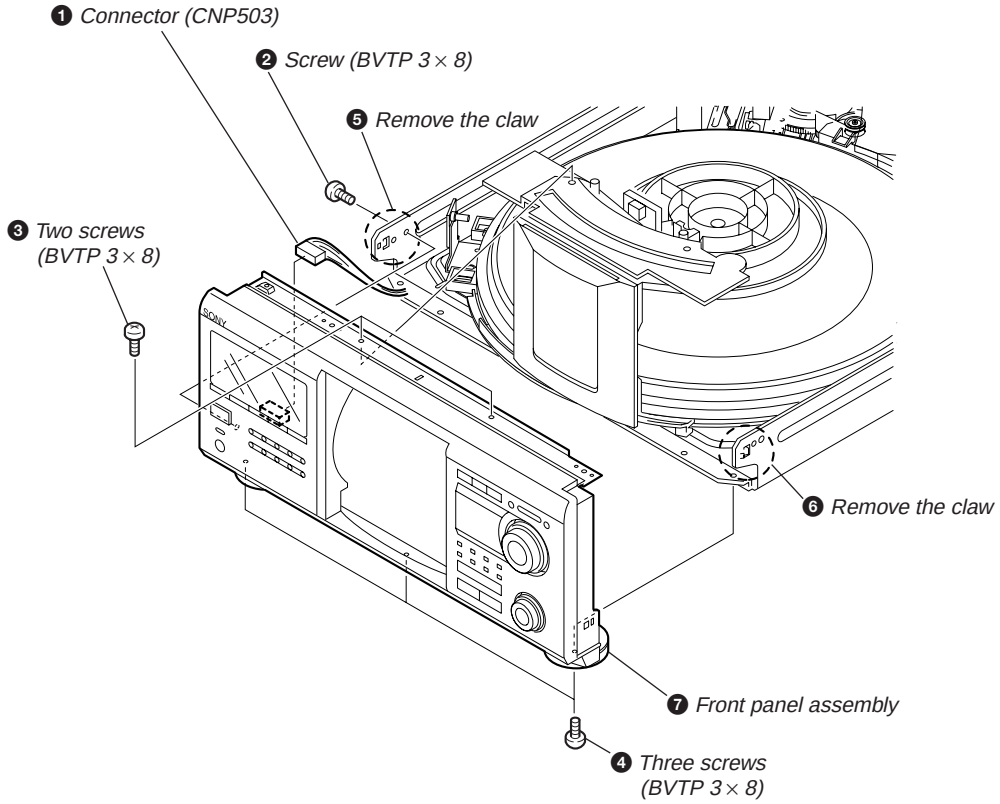
3-1. UPPER CASE



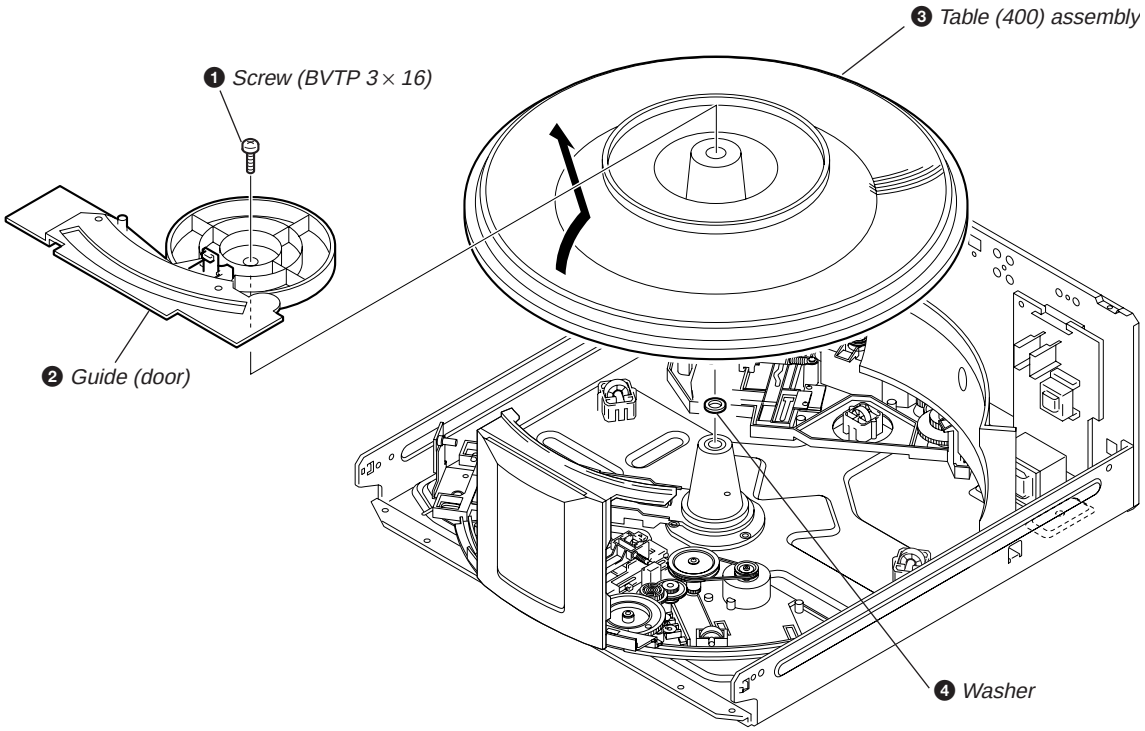
3-2. MAIN BOARD



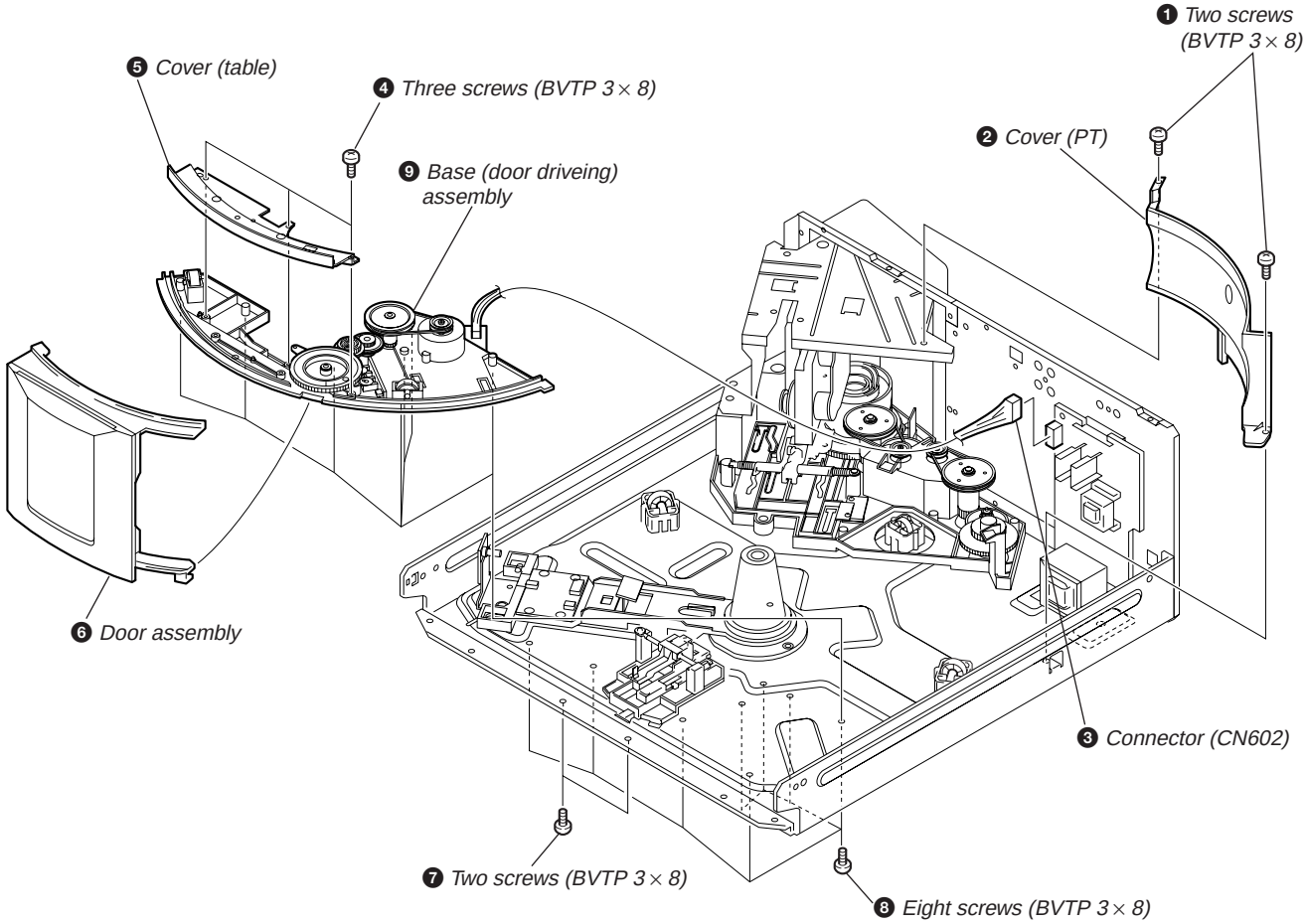
3-3. FRONT PANEL ASSEMBLY


❶ Connector (CNP503)
❷ Screw (BVTP 3 × 8)
❺ Remove the claw
❸ Two screws (BVTP 3 × 8)
❻ Remove the claw
❼ Front panel assembly
❹ Three screws (BVTP 3 × 8)

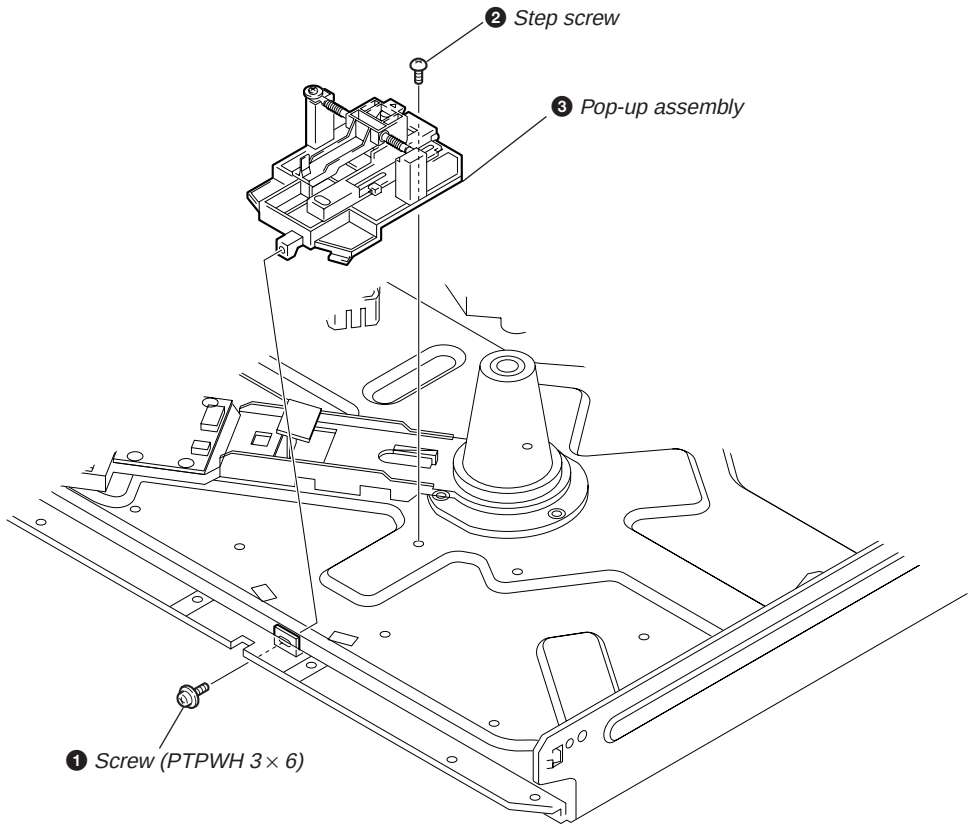
3-4. TABLE (400) ASSEMBLY



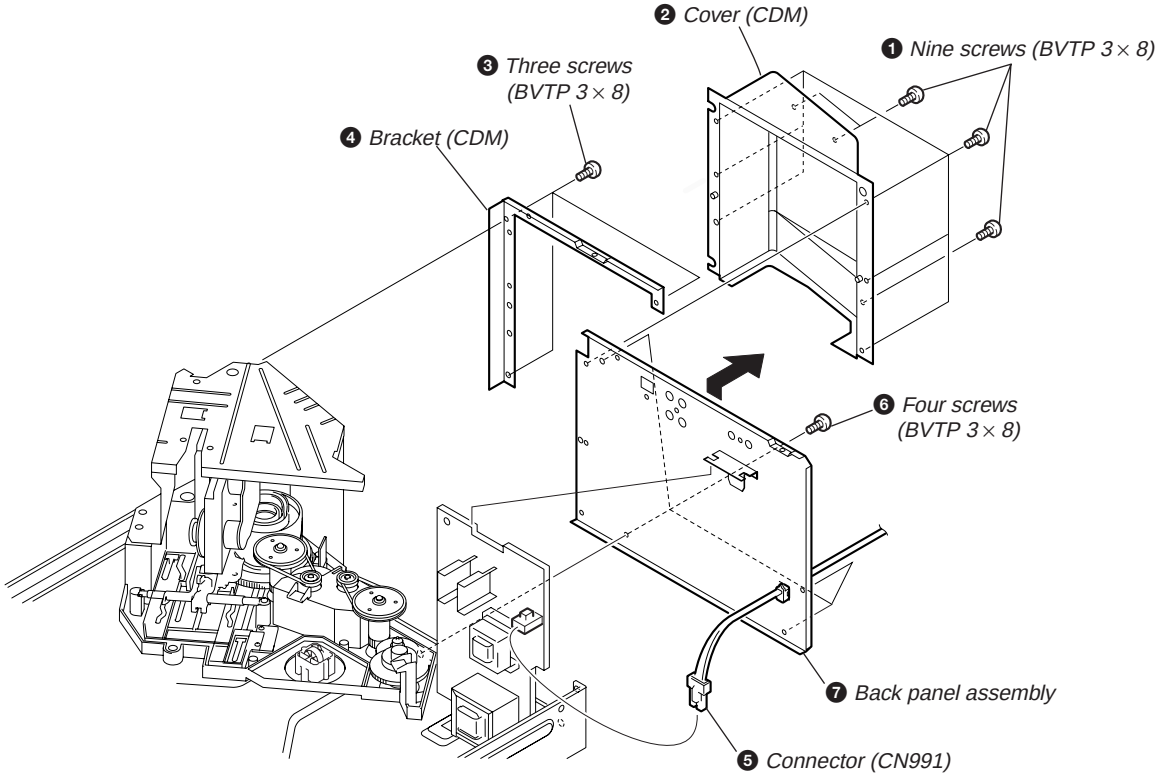
3-5. BASE (DOOR DRI VING) ASSEMBLY


❶ Two screws (BVTP 3× 8)
❺ Cover (table)
❹ Three screws (BVTP 3× 8)
❷ Cover (PT)
❾ Base (door driveing) assembly
❻ Door assembly
❸ Connector (CN602)
❼ Two screws (BVTP 3× 8)
❽ Eight screws (BVTP 3× 8)

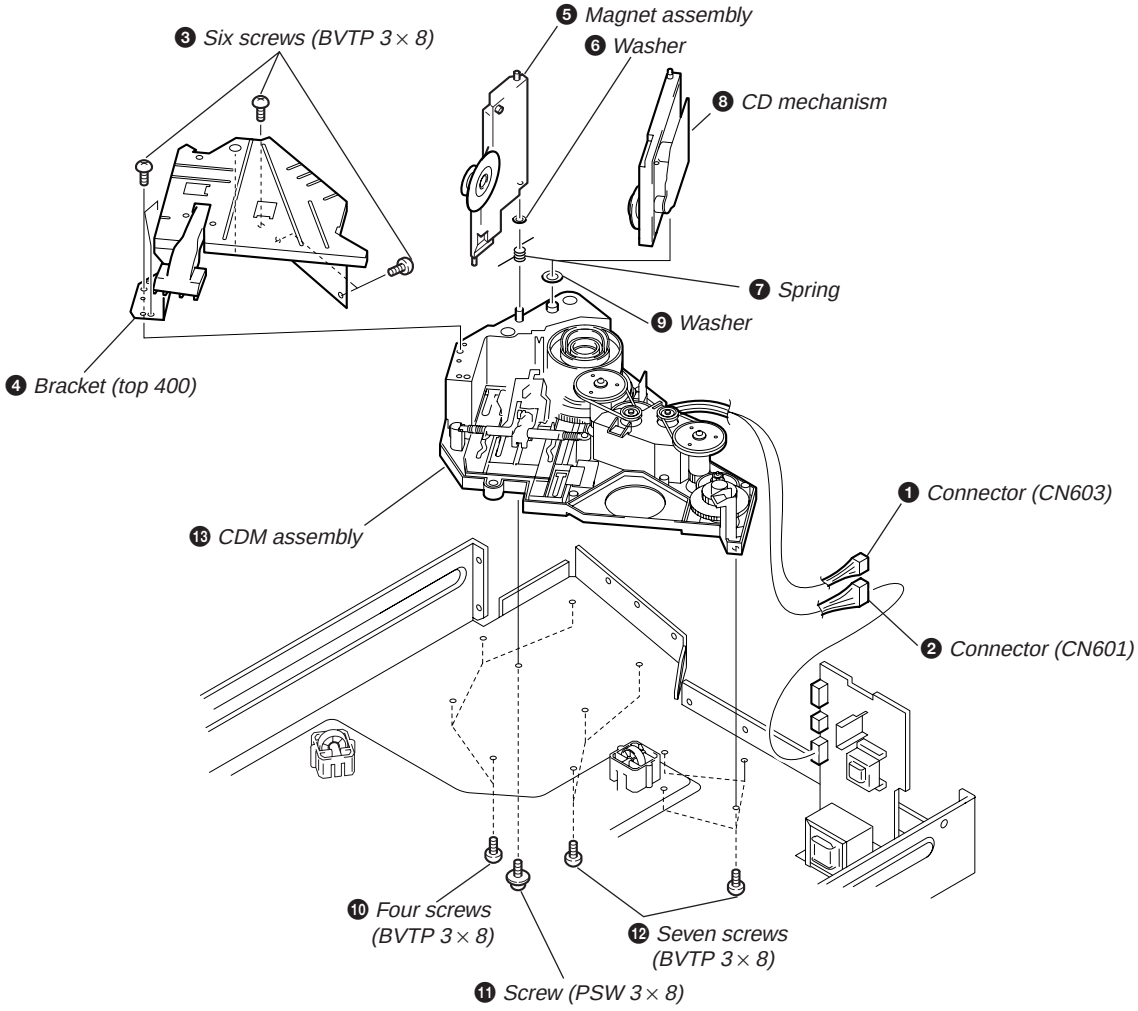
3-6. POP-UP ASSEMBLY



3-7. BACK PANEL ASSEMBLY


❷ Cover (CDM)
❶ Nine screws (BVTP 3 × 8)
❸ Three screws (BVTP 3 × 8)
❹ Bracket (CDM)
❻ Four screws (BVTP 3 × 8)
❼ Back panel assembly
❺ Connector (CN991)

3-8. CDM ASSEMBLY


❸ Six screws (BVTP 3 × 8)
❺ Magnet assembly
❻ Washer
❽ CD mechanism
❼ Spring
❾ Washer
❹ Bracket (top 400)
❶ Connector (CN603)
⓭ CDM assembly
❷ Connector (CN601)
❿ Four screws (BVTP 3 × 8)
⓬ Seven screws (BVTP 3 × 8)
⓫ Screw (PSW 3 × 8)

SECTION 4
SERVICE MODE

SPECIAL FUNCTION

This unit is provided with several service modes.
Details are shown in the following table.

Turn on the power and press GROUP FILE, MEGA CONTROL and I/⏻ buttons.
Rotate the DISC/CHARACTER dial to enter any of the following modes.

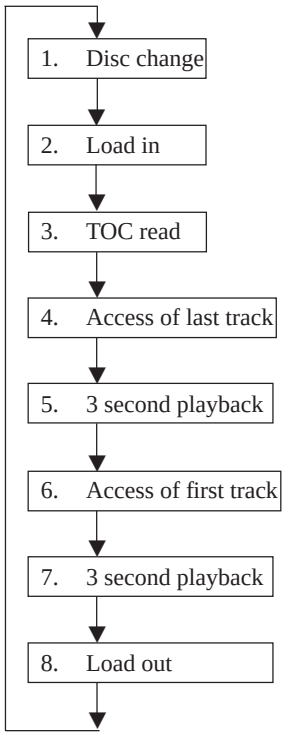
Display	
Mech Adjust	Mechanism adjustment mode
Table Roatation	Mode in which table keeps rotating
All Lit Mode	All lights ON mode
Ship Mode	Default mode
Normal Aging	Normal aging mode
Table Aging	Table aging mode
Door Popup Aging	Door/popup aging mode
Color Bar (OSD)	Color bar on OSD
Test Disp (OSD)	TEST DISPLAY for OSD
Memo Copy Mode	Memo copy mode
Model Name	Model name display
Show Mcom Ver.	Software version display
Demo	400-memo writing mode
BUS Check	Bus check
M kentou	Loading aging

To exit the mode, press I/⏻ button to enter the standby state.
(When selecting the Ship mode, the standby mode is automatically entered.)

AGING MODE

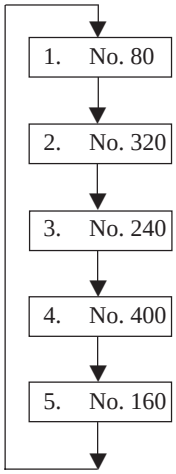
- Mode which repeatedly changes and plays back discs automatically in the unit.
- It will repeat aging as long as no errors occur.
- If an error occurs during aging, it will stop all servos, motors, etc. instantaneously, display the error number, and stop operations. However, the stopping conditions differ according to whether the unit is equipped with the “self-protection function during errors” described later.
  The function serves to maintain the state of the unit when errors occur.

Sequence of Aging Mode



Order of Disc Change

(1 cycle takes 3 minutes)



Special Aging Mode Functions

The aging mode is provided with the following convenient functions

- Disc setting mode (*1)
- Selection of presence of protection function during error (*2)
- Count function of aging cycle (*3)

*1 Disc setting mode:
5 discs are set before setting the aging mode. This mode makes the setting of these discs more easy.

*2 Self protection function during errors:
Function which voluntarily corrects errors which occur during normal operations by retries.
If this function is not provided, all operations will be stopped without retiring. It is suitable for checking errors with low reproducibility.
If this function is provided, and errors can be corrected by retries, aging will be continued without stopping.

*3 Aging cycle count function:
Functions which displays the number of agings carried out on the Fluorescent indicator tube in numbers. One aging cycle consists of five discs.

Aging Procedure

1. Turn on the power and press the GROUP FILE, MEGA CONTROL and I/⏻ buttons.
2. Rotate DISC/CHARACTER dial, select “Normal Aging” and press the dial to start the aging mode.
3. When the disc set mode is set, the ▷ and ▮▮ LEDs blink.
4. Rotate the DISC/CHARACTER dial. The slits (No. 80, 160, 400, 240, 320) for setting the discs will come forward. Insert the discs into these slits. Do not set the discs in other slits.
5. Set whether the self-protection function during errors is equipped with the unit. Press the REPEAT button. If “REPEAT” is displayed on the Fluorescent indicator tube, it means the function is provided. If “REPEAT” is not displayed, it means the function is not provided.
6. Press the ▷ button.
7. The ▷ LED blinks, the aging mode is set, and aging is started.
8. The aging cycle lasts 3 minutes. If errors occur during aging, the error number will be displayed on the Fluorescent indicator tube. (Refer to the following table for the details of the errors.)
9. Aging will be repeated as long as no errors occur.
10. After each aging cycle, the number displayed on the Fluorescent indicator tube will increase.
11. To end aging, to end aging, press the I/⏻ button to enter the standby mode.

Error code

Code number	Name	Contents
#Err 01	DISC sensor check 1	No disc in the specified slit
#Err 02	DISC sensor check 2	Disc in other slits
#Err 03	Table operation check 1	Table motor current over
#Err 04	Table operation check 2	No table sensor input
#Err 05	Loading operation check 1	Load in timeover
#Err 06	Loading operation check 2	Load out timeover
#Err 08		Table is not stopped within the specified time.
#Err 09		Stopped while both T.SENS 1 and 2 are “LOW”.
#Err *1	BU related check 1	Access timeover
#Err *2	BU related check 2	During high speed playback, COUNT timeout
#Err *3	BU related check 3	Q data read error
#Err *4	BU related check 4	]BU operation (from focus search to until signal can be read) timeover
#Err *5	BU related check 5	GFS monitor error
#Err *6	BU related check 6	Focus cannot be imposed by focus search

The * numbers mean the following according to the state of the unit during aging
2 : From chucking to end of TOC read
3 : From end of TOC read to end of last track playback
4 : From end of last track playback to end of first track playback
: DISC No.

LOADING AGING MODE

- This mode is used for repeating loading operations continuously.
- Aging will be performed continuously unless an error occurs.
- When an error occurs, the error code will be displayed on the fluorescent indicator tube.

Procedure:

1. Set a disc in the DISC 1 slit.
2. Turn on the power and press the GROUP FILE, MEGA CONTROL and I/⏻ buttons.
   Rotate the DISC/CHARACTER dial, select "Table Roatation" and press the dial.
3. When the mode is set, both the ▷ and ❚❚ indicators will start to blink.
4. When the ▷ button is pressed, only the ▷ indicator will blink and aging starts.
5. To end the mode, press the I/⏻ button or disconnect the power cord from the outlet.

The error codes displayed during operations and when errors occur are the same as the **"AGING MODE"** described earlier.

TABLE AGING MODE

- This mode is used for rotating the table randomly.
- Aging will be performed continuously unless an error occurs.
- When an error occurs, the error code will be displayed on the fluorescent indicator tube.

Procedure:

1. Turn on the power and press the GROUP FILE, MEGA CONTROL and I/⏻ buttons.
   Rotate the DISC/CHARACTER dial, select "Table Aging" and press the dial.
   Rotate the DISC/CHARACTER dial and set the disk in the slit whose number is being displayed (150, 149, 300, 1, 2)
2. When the mode is set, both the ▷ and ❚❚ indicators will start to blink.
3. When the ▷ button is pressed, only the ▷ indicator will blink and aging starts.
4. To end the mode, press the I/⏻ button or disconnect the power cord from the outlet.

During aging, operations will be carried out sequentially in the order of No. 1, No. 2, No. 150, No. 149, and No. 300 slits.

The error codes displayed during operations and when errors occur are the same as the **"AGING MODE"** described earlier.

DOOR POP UP AGING MODE

- This mode is used for performing aging of the CD pop up part and door open/close.
  It is used for checking if operations are performed normally.

Method:

1. Turn on the power and press the GROUP FILE, MEGA CONTROL and I/⏻ buttons.
   Rotate the DISC/CHARACTER dial, select "Door Popup Aging" and press the dial.
2. Aging starts, and door open/close and up/down operations of the pop up part are performed continuously.
3. To end the mode, press the I/⏻ button.

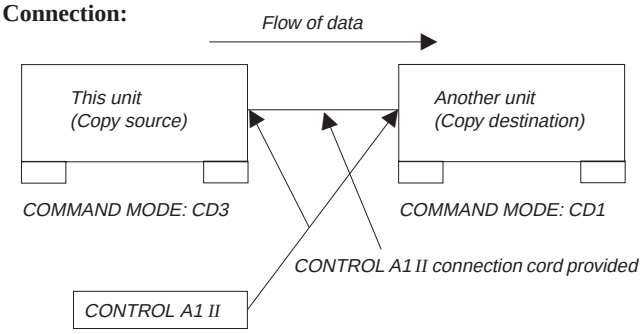
TABLE ROTATION MODE

- This mode is used for electrical adjustments. Refer to the section on Electrical Adjustments.

TITLE MEMO SHIFT MODE

- This mode is used for writing title memo information recorded in this unit in a different unit.
  Use it for transferring disc memo contents written by the customer to the new units when replacing the unit, etc.

Connection:



Procedure:

1. Connect two units using the CONTROL A1 II connection cord shown in the figure.
2. Set the COMMAND MODE switch of the copy source unit to CD3 and the COMMAND MODE switch of the copy destination unit to CD1.
3. With the power on, while pressing the GROUP 7 button and ⏏ OPEN/CLOSE button of the copy destination unit, press the +100 button.
4. When the data has been transferred, the fluorescent indicator tube displays "complete" for about 1 second.

MODEL NAME DISPLAY

- Model names can be displayed on the fluorescent indicator tube for checking the microprocessor model setting, etc.

Procedure:

With the power ON, while pressing the GROUP FILE and MEGA CONTROL buttons, press the I/⏻ button.
Rotate the DISC/CHARACTER dial, select "Model Name" and press the dial.
The model name is displayed on the fluorescent indicator tube.
Let the model name be displayed for three seconds and exit the mode.

MICROPROCESSOR VERSION DISPLAY

- The microprocessor version can be displayed on the fluorescent indicator tube.

Procedure:

With the power ON, while pressing the GROUP FILE and MEGA CONTROL buttons, press the I/⏻ button.
Rotate the DISC/CHARACTER dial, select "Show Mcom Ver." and press the dial.
The microprocessor version is displayed on the fluorescent indicator tube.
Let the model name be displayed for three seconds and exit the mode.

ALL LIT MODE

- This mode is used for lighting the whole fluorescent indicator tubes and LEDs.

Procedure:

With the power ON, while pressing the GROUP FILE and MEGA CONTROL buttons, press the I/⏻ button.
Rotate the DISC/CHARACTER dial, select "All Lit Mode" and press the dial.
Both the fluorescent indicator tubes and LEDs will light up completely.
To end this mode, press the I/⏻ mode.

MECHANISM ADJUSTMENT MODE

- This mode is used for mechanism adjustments. Refer to the section on Mechanism Adjustments.

SHIPMENT MODE

- This mode is used for setting the unit to the shipment state. Do not execute it without a proper reason as it erases the memory of the title memo recorded by the customer.

Procedure:

Set the TIMER switch to OFF. Next, with the power ON, while pressing the GROUP FILE button and MEGA CONTROL button, press the I/⏻ button. If the switch state is normal, the model name will be displayed on the fluorescent indicator tube and the unit will set into the shipment mode.

If the various switches are not set to their designated positions, error will be displayed on the fluorescent indicator tube.

TITLE MEMO RECORDING CHECK MODE

This mode is not required for servicing. Do not execute without a proper reason.

If executed, the memory of the title memo recorded by the customer will be erased.

SECTION 5
TEST MODE

5-1. ADJ Mode

1. Turn ON the power of the unit, set disc to disc table, and perform chucking.
2. Disconnect the power supply plug from the outlet.
3. To set ADJ mode, connect the test point (ADJ) of the MAIN board to Ground, and connect the power supply plug to the outlet.

In this mode, table rotation and loading operations are not performed because it is taken that the disc has already been chucked.

Note: The same operations are also performed in the following when the test point (ADJ) is connected to Ground after turning on the power.

- Direct search (movement of sledding motor) is not performed during accessing
- Ignored even when GFS becomes L
- Ignored even when the Q data cannot be read
- Focus gain does not decrease

ADJ Mode Special Functions Table
(The buttons shown with ( ) function by using the supplied remote commander only)

Button	Function
CONTINUE	Servo average display Displays VC, FE, RF, TE and traverse in hexadecimal numbers
SHUFFLE	Focus bias display Each time this is pressed, the focus bias is switched between 1 and 2 (1) Bias actually set Optimum bias Minimum jitter (2) +:Upper aliasing bias -:Lower aliasing bias
PROGRAM	Auto gain display Displays focus, tracking, sledding in hexadecimal numbers
GROUP 3 (3)	Turns off the tracking and sledding servo
GROUP 8 (8)	Turns on the tracking and sledding servo
CHECK	S-JI mode. (Exits this mode when the I/⏻ button is pressed.)

To end the ADJ mode

1. Press the I/⏻ button and disconnect the plug.
2. Remove the wire between ADJ and GND.

5-2. Key and Display Check Mode

To set this mode, connect the test point (AFADJ) on the MAIN board to Ground, and connect the power supply plug to the outlet.

Note: When this mode is executed, all title memos recorded will be erased.

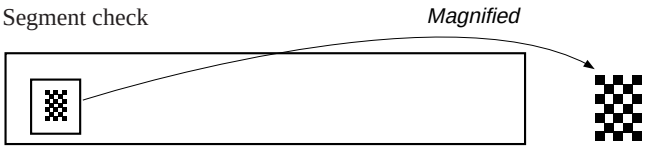
- When this button is pressed, "line # No. #" will be displayed. However, these will not be displayed for the following special buttons. However, these will not be displayed for the following special buttons.

■ (stop) button: FL segment check
(Refer to FL Tube Check Patterns)
❚❚ (pause) button: FL grid check
(Refer to FL Tube Check Patterns)
The ❚❚ LED also lights up simultaneously.
▷ (play) button: All FL segment and grid will light up.
▷ LED also lights up simultaneously.
TIMER switch: When the switch position is PLAY, the STANDBY LED lights up. It goes OFF when set to OFF.

Each time this button is pressed, the value of the "Got ## keys" increases. Buttons pressed once will not be counted when pressed again.

FL Tube Check Patterns

Segment check



Grid check

- When the jog dial and AMS is rotated to the right, the GROUP LEDs light up in the order of 1→2..8→HIT LIST→EASY PLAY ARTIST MODE →MEGA CONTROL→1.
- When the jog dial and AMS is rotated to the left, the GROUP LEDs light up in the order of 8→7..1 →MEGA CONTROL ARTIST MODE →EASY PLAY→HIT LIST→8.

• Abbreviation
FL: Fluorescent Indicator Tube

To end the ADJ mode

1. Disconnect the plug.
2. Remove the wire between AFADJ and GND.

Adjustment Location: MIAN board (See page 26)

SECTION 6
ADJUSTMENTS

6-1. MechaniCAL Adjustments

Pop Up Mechanism Adjustment

1. Turn on the power and set the dick to number 24.
2. With the power ON, while pressing the GROUP FILE and MEGA CONTROL buttons, press the I/⏻ button to enter the Adjastment mode.
3. Rotate the JOG dial and select the mechanism adjustment mode. ("Mech Adjust" is displayed.)
   Press the JOG dial.
4. Keep pressing the GROUP 1 button to operate the loading mechanism, and continue pressing until the disc table locks. (Fig-1)
5. Keep pressing the GROUP 2 button to raise the pop up part.
6. Loosen the adjusting screw, move the screwdriver left and right until the lever (POP UP) does not touch the slit wall, and secure the screw. (Fig-2)

The following buttons have special functions in this mode.

GROUP 1 button: Loading mechanism IN operation
GROUP 5 button: Loading mechanism OUT operation
GROUP 2 button: Pop up part UP operation
GROUP 6 button: Pop up part DOWN operation

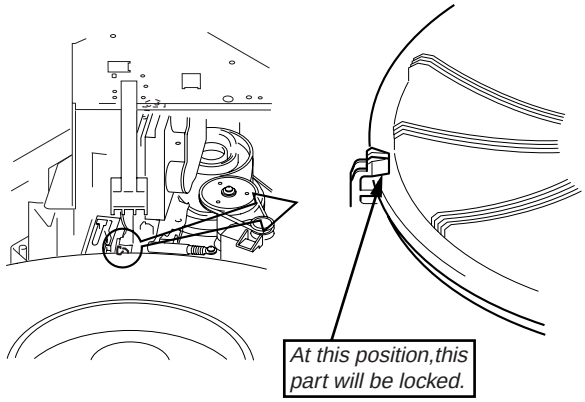


FIg-1

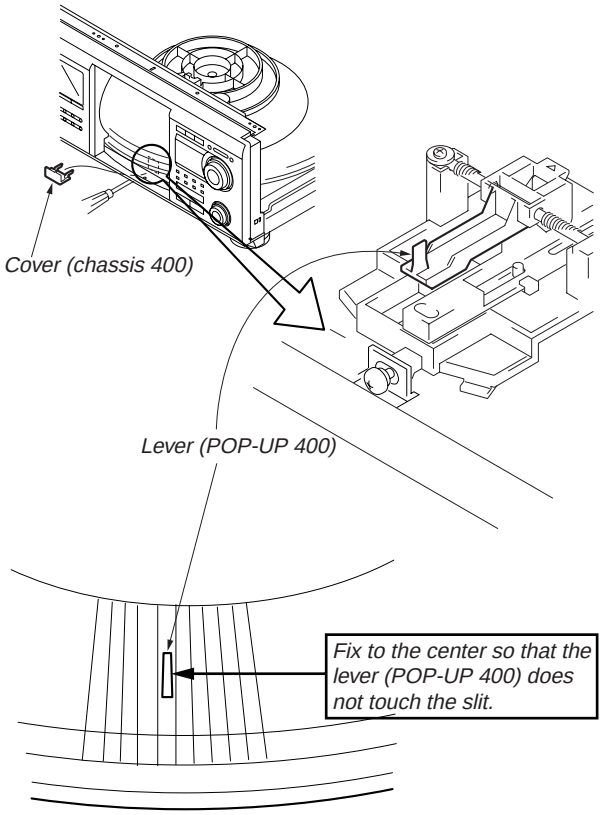


FIg-2

Sensor Adjustment

1. Enter the adjustment mode and select “Mech Adjust” with the JOG dial, and press the dial.
2. Press the GROUP 1 button to operate the loading mechanism, and continue pressing until the disc table locks. (Fig-3)
3. Loosen the fixing screw and move the holder so that both PLAY button LED (green) and the ARTIST MODE button LED (green) light.
   If the holder is not in the correct position, the MEGA CONTROL button LED (orange) or the PAUSE button LED (orange) lights.
4. Moving the disc table right and left with a hand after the screw is fixed, the table will move by the play of a disc table. If the LEDs light up alternately, the adjustment will be performed correctly. (Fig-4)

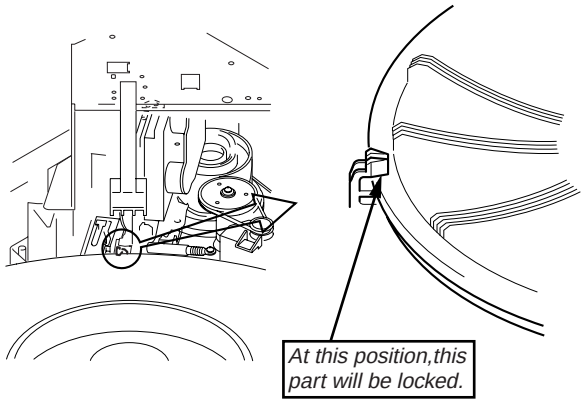
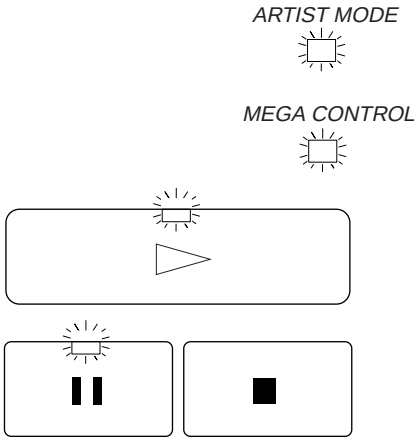


FIg-3



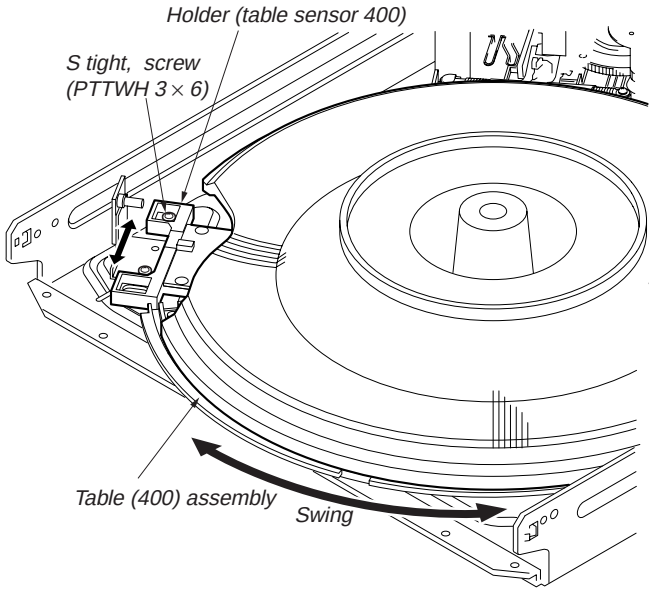


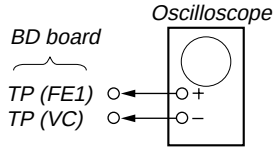
FIg-4

6-2. ELECTRICAL ADJUSTMENT

Note:

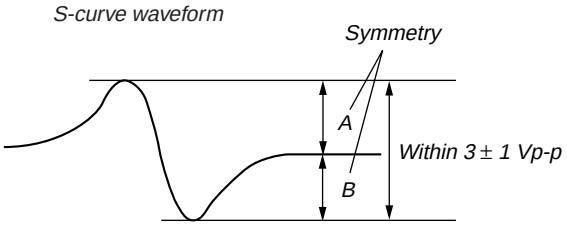
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-Curve Check



Procedure :

1. Chuck the disc (YEDS-18) beforehand, and disconnect the power cord from the outlet.
2. Connect oscilloscope to test point TP (FE1) on BD board.
3. Connect test point (ADJ) on MAIN board to ground with lead wire.
4. The ADJ mode is set when the power cord is inserted into the outlet and power is supplied.
5. The fifth track is played automatically.
6. Press the CHECK button.
7. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1 Vp-p.

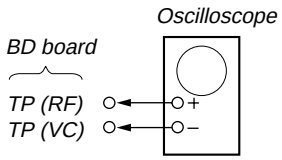


8. Pressing the I/⏻ button stops the output of the waveform (s curve).
9. After check, remove the lead wire connected in step 3.

Note : • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

Adjustment Location: BD board (See page 19)

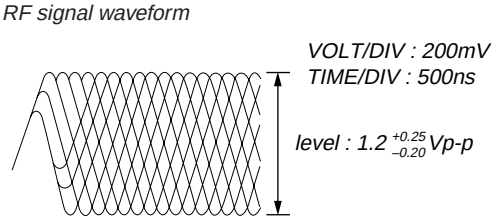
RF Level Check



Procedure :

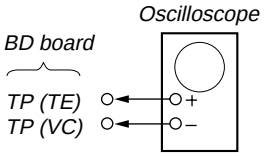
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in to play the number five track.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: A clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.



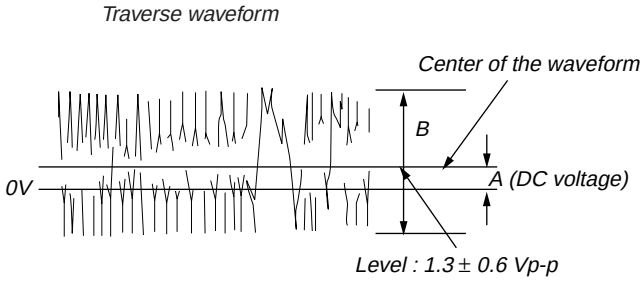
Adjustment Location: BD board (See page 19)

E-F Balance Check

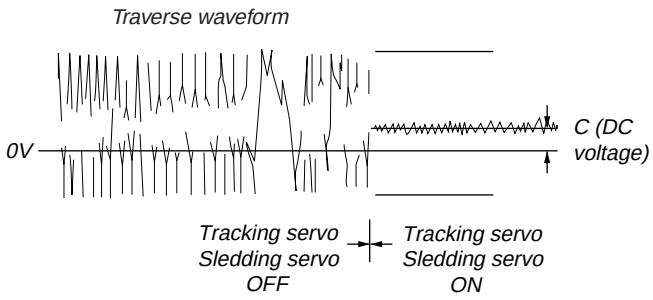


Procedure :

1. Chuck the disc (YEDS-18) beforehand, and disconnect the power cord from the outlet.
2. Connect oscilloscpe to test point TP (TE) on BD board.
3. Connect test point (ADJ) on MAIN board to ground with lead wire.
4. The ADJ mode is set when the power cord is inserted into the outlet and power is supplied.
5. The fifth track is played automatically.
6. Press the GROUP 3 button. (The tracking servo and the sledding servo are turned OFF.)
7. Check the level B of the oscilliscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
   Confirm the following :
   A/B x 100 = less than ± 22%



8. Press the GROUP 8 button. (The tracking servo and sledding servo are turned ON.) Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 7.



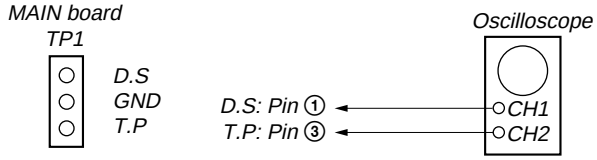
9. Disconnect the lead wire of TP1 (ADJ) connected in step 2.

Adjustment Location: BD board (See page 19)

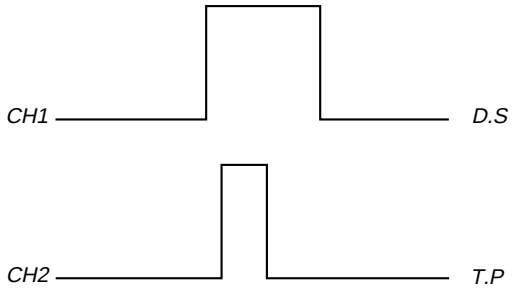
Disc Sensor Adjustment

Be sure to perform this adjustment after sensor adjustment in MECHANICAL ADJUSTMENT.

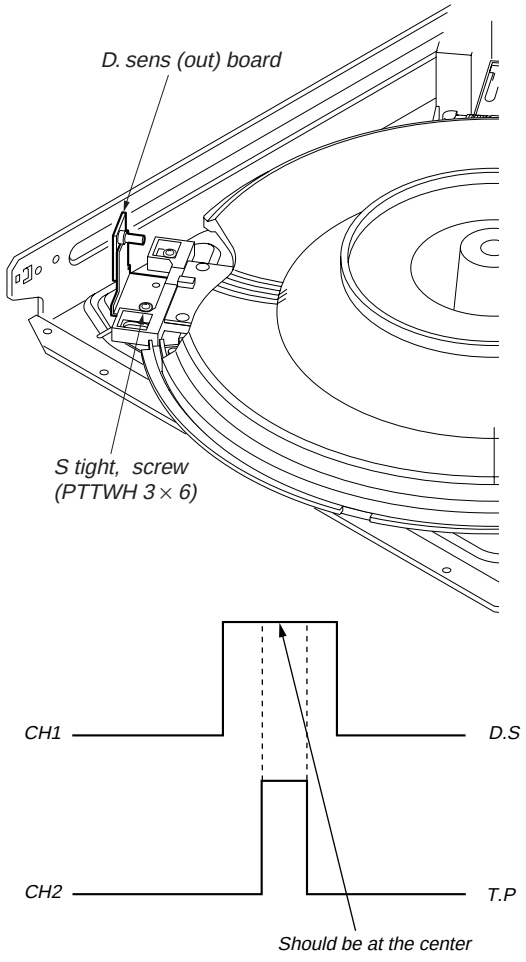
Connection:



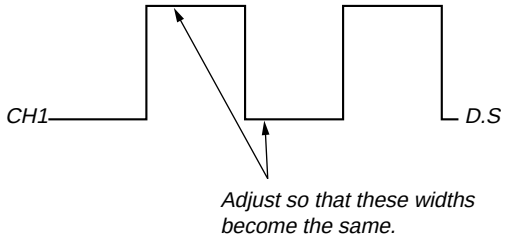
Waveform:



1. Connect the oscilloscope to Pins ①, ②, and ③ of TP1 of the MAIN board.
2. Check that no discs are loaded in the unit.
3. With the power ON, while pressing the GROUP FILE and MEGA CONTROL buttons, press the I/⏻ button. Rotate the DISC/CHARACTER dial, select "Table Rotation" and press the dial.
   The disc table starts to rotate in the clockwise direction.
4. Loosen the fixing screw, move the mounting board (SENSOR), and secure the mounting board (SENSOR) at the point the H portion of the T.P waveform comes the center of the H portion of the D.S waveform.

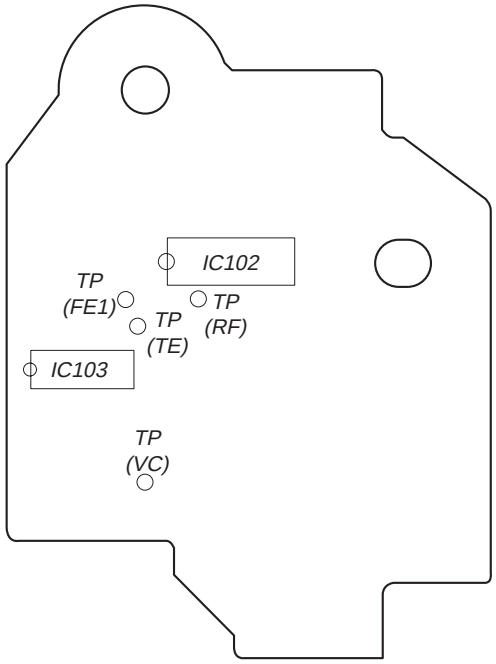


5. Rotate the DISC/CHARACTER knob in the counterclockwise direction and the disc table starts to rotate in the same direction. Check that the waveform at this time is the same as that in step 4. If larger by a considerable extent, rotate the DISC/CHARACTER knob in the clockwise direction and the disc table starts to rotate in the same direction. Repeat from step 4.
6. Rotate RV501 of the MAIN board and adjust so that the H and L portions of the D.S waveform become the same.



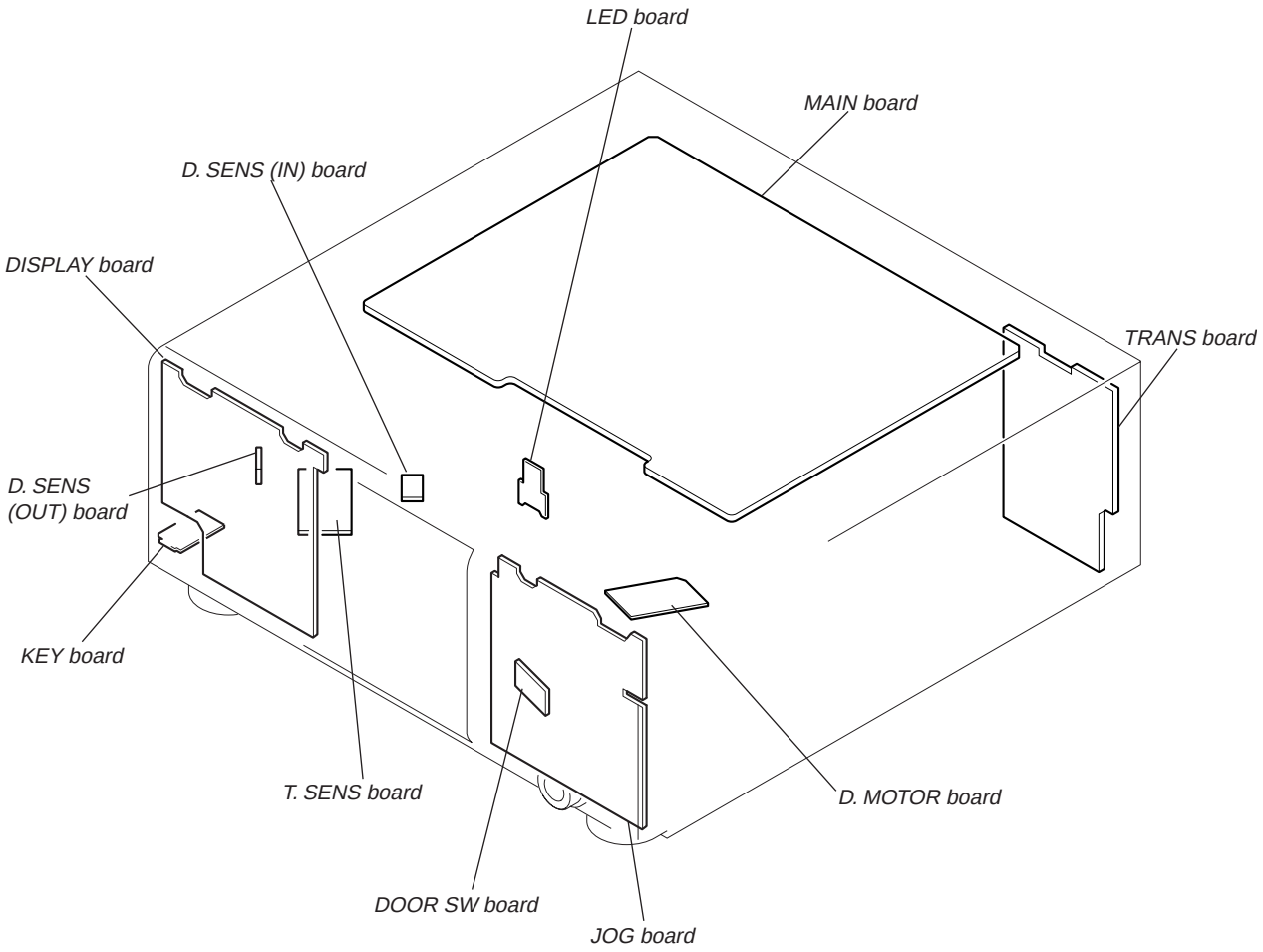
Adjustment Location

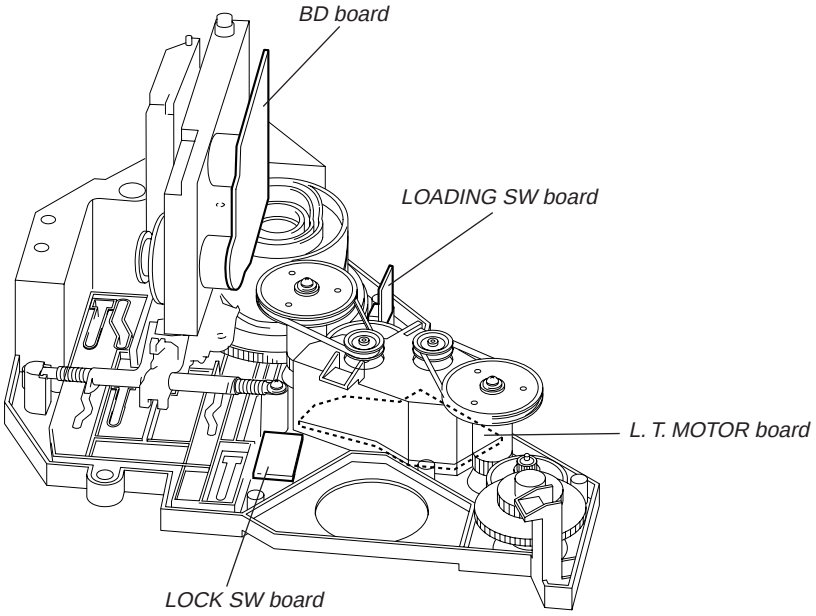
[BD BOARD] – Side B –



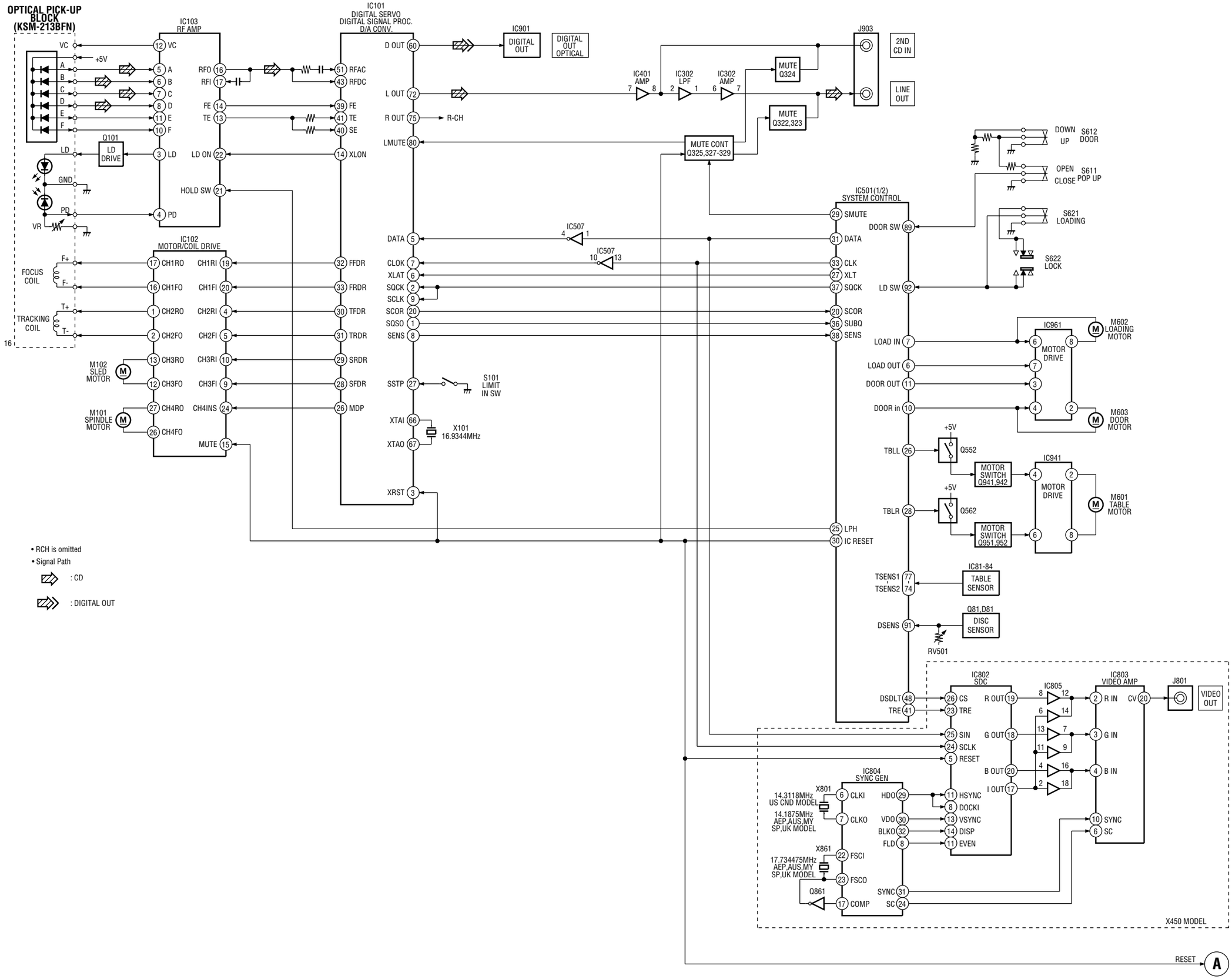
SECTION 7
DIAGRAMS

7-1. CIRCUIT BOARDS LOCATION

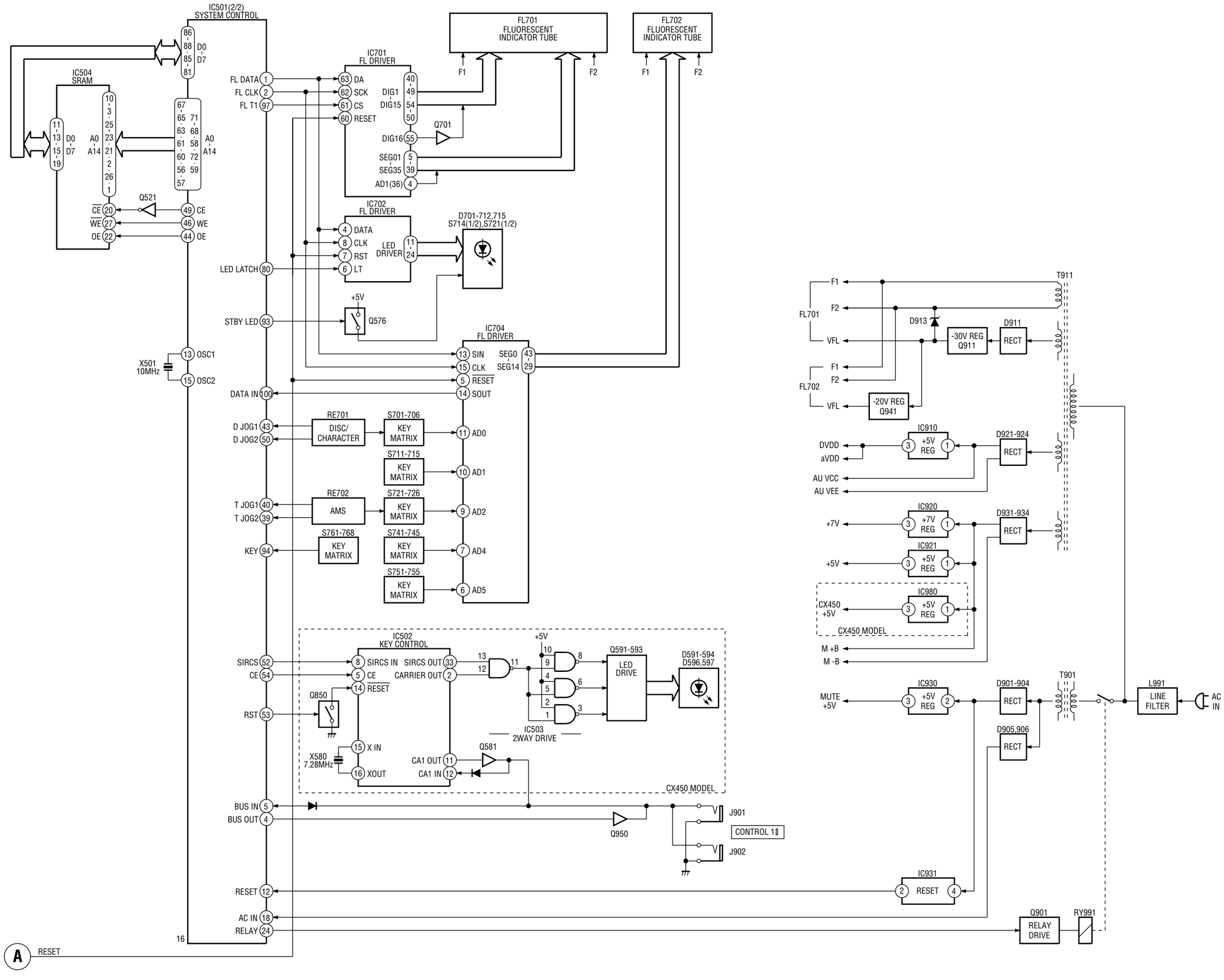




7-2. BLOCK DIAGRAMS
– BD SECTION –



– MAIN SECTION –



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- B+ : B+ Line.
- B– : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇨ : digital out
- Abbreviation
  CND : Canadian model
  AUS : Australian model
  SP : Singapore model.
  MY : Malaysia model.

For printed wiring boards.

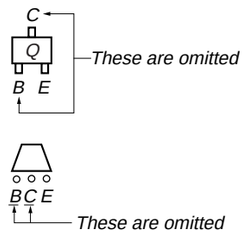
Note:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▒ : Pattern from the side which enables seeing.

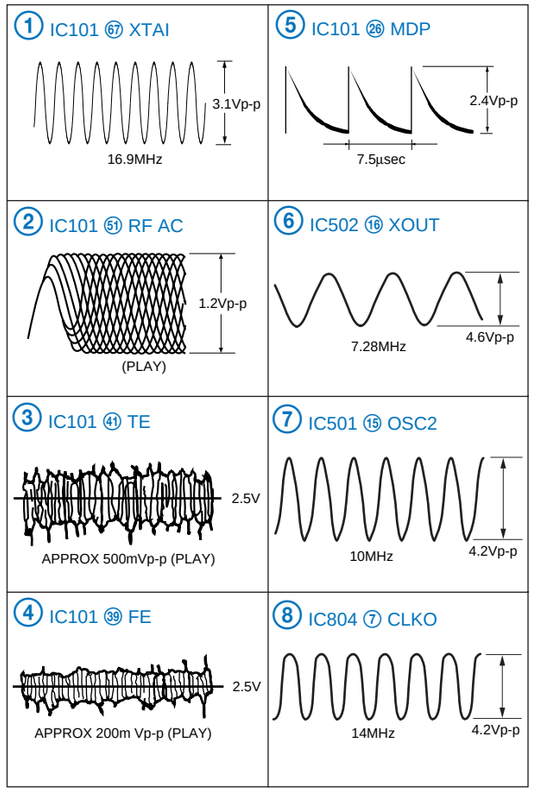
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- **Indication of transistor**

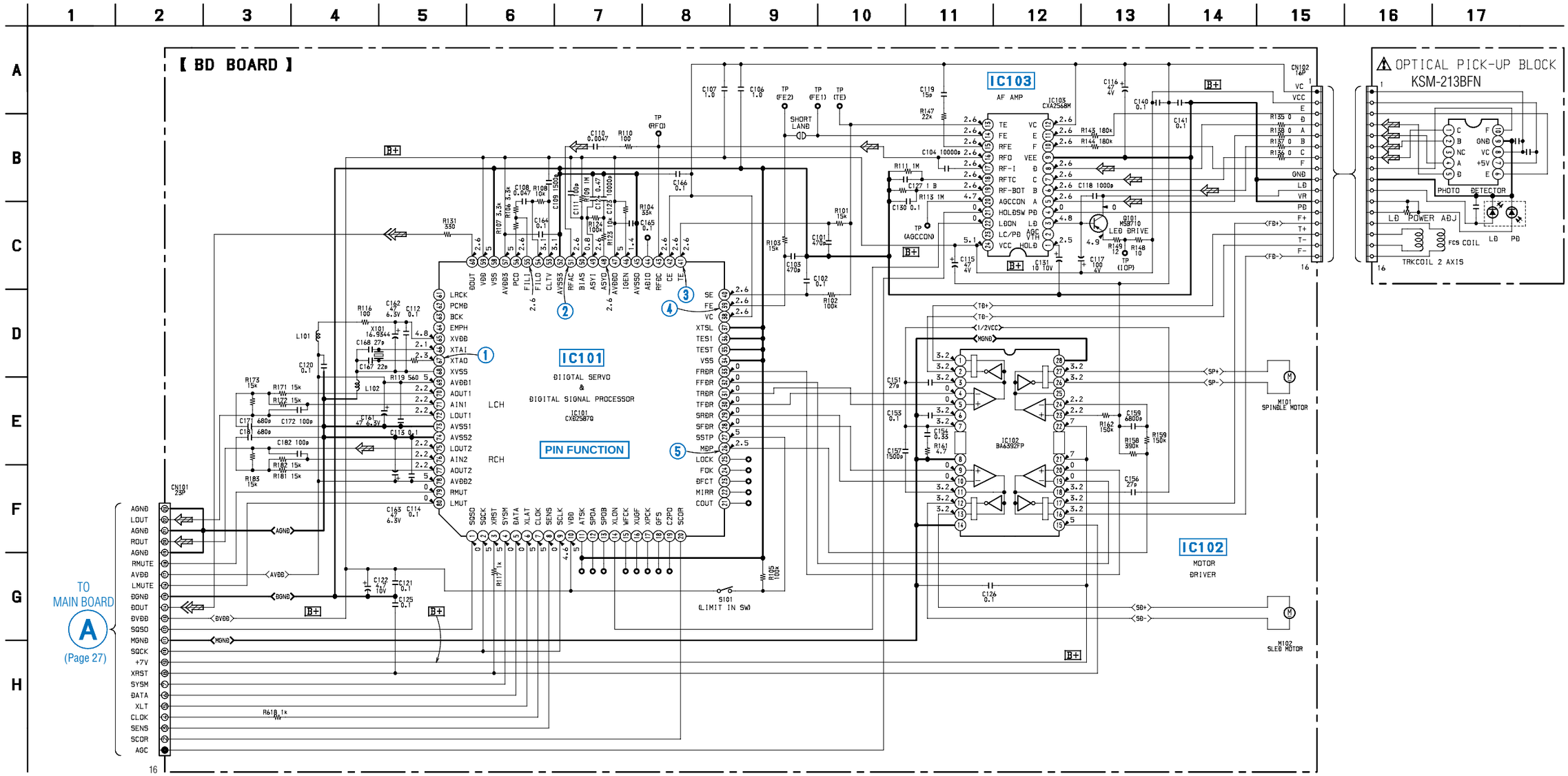


Waveforms



7-3. Schematic Diagram – BD Section –

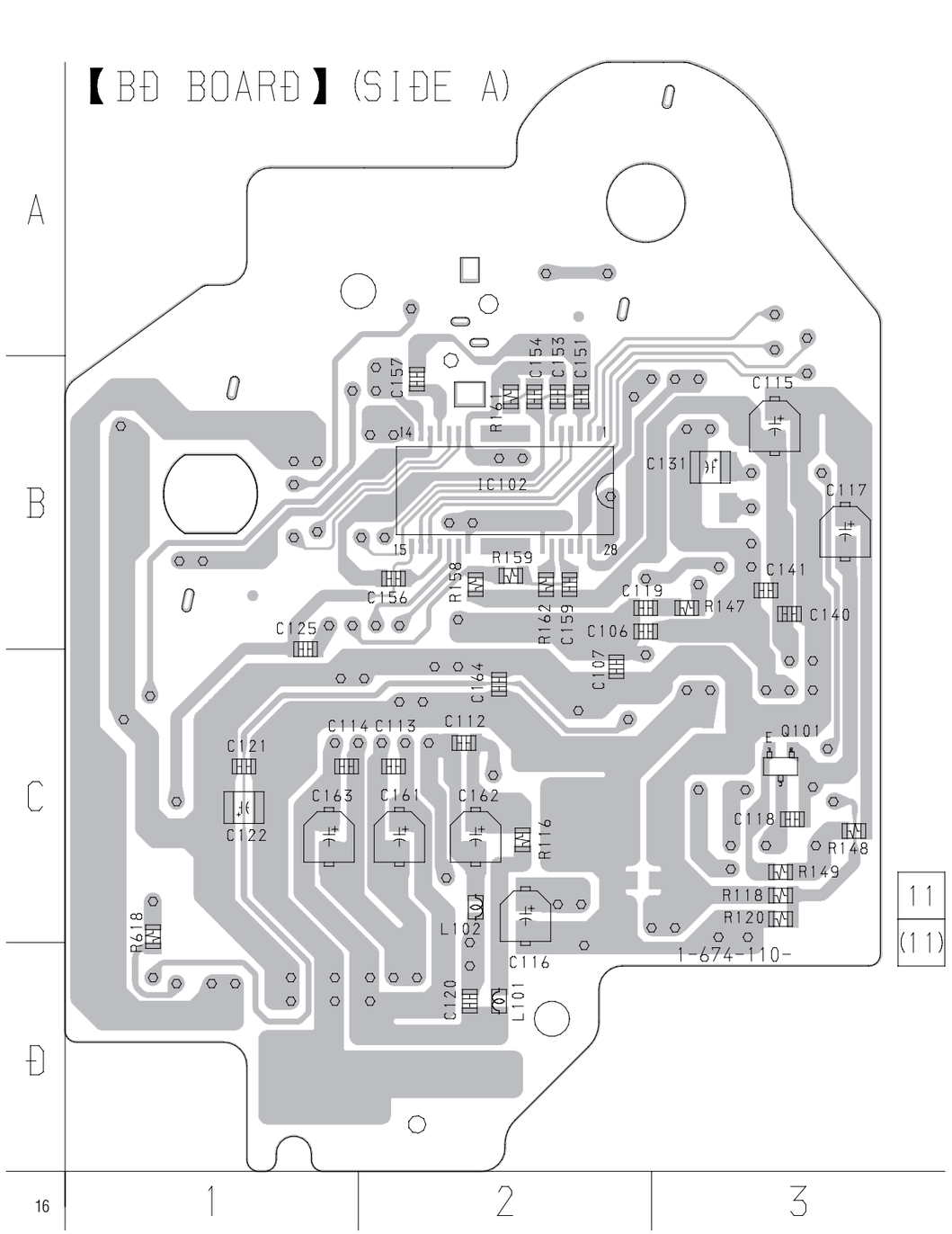
- See page 23 for Waveforms.
- See page 36 for IC Block Diagrams.
- See page 38 for IC Pin Functions.

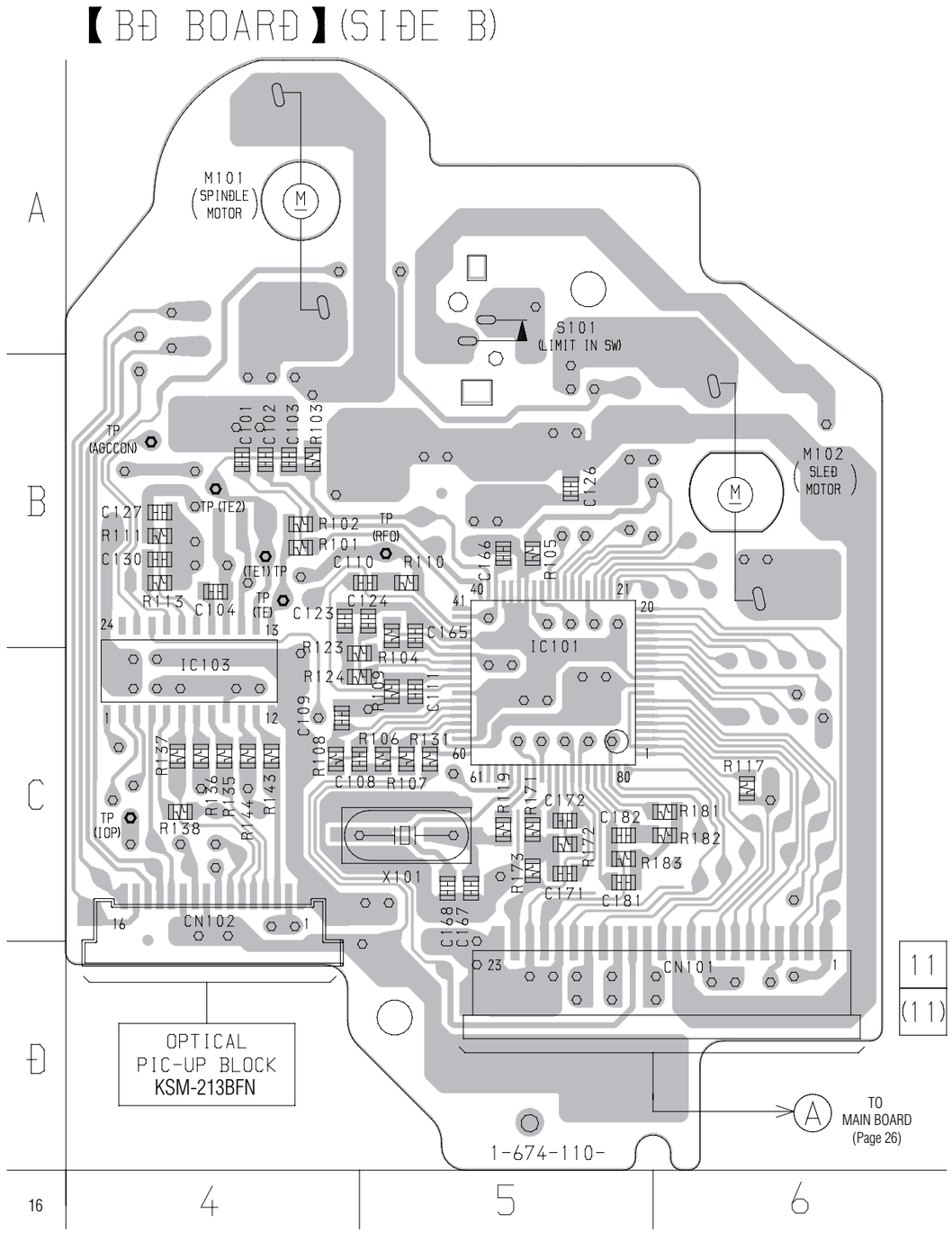


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-4. Printed Wiring Board – BD Section –

• See page 20 for Circuit Boards Location.



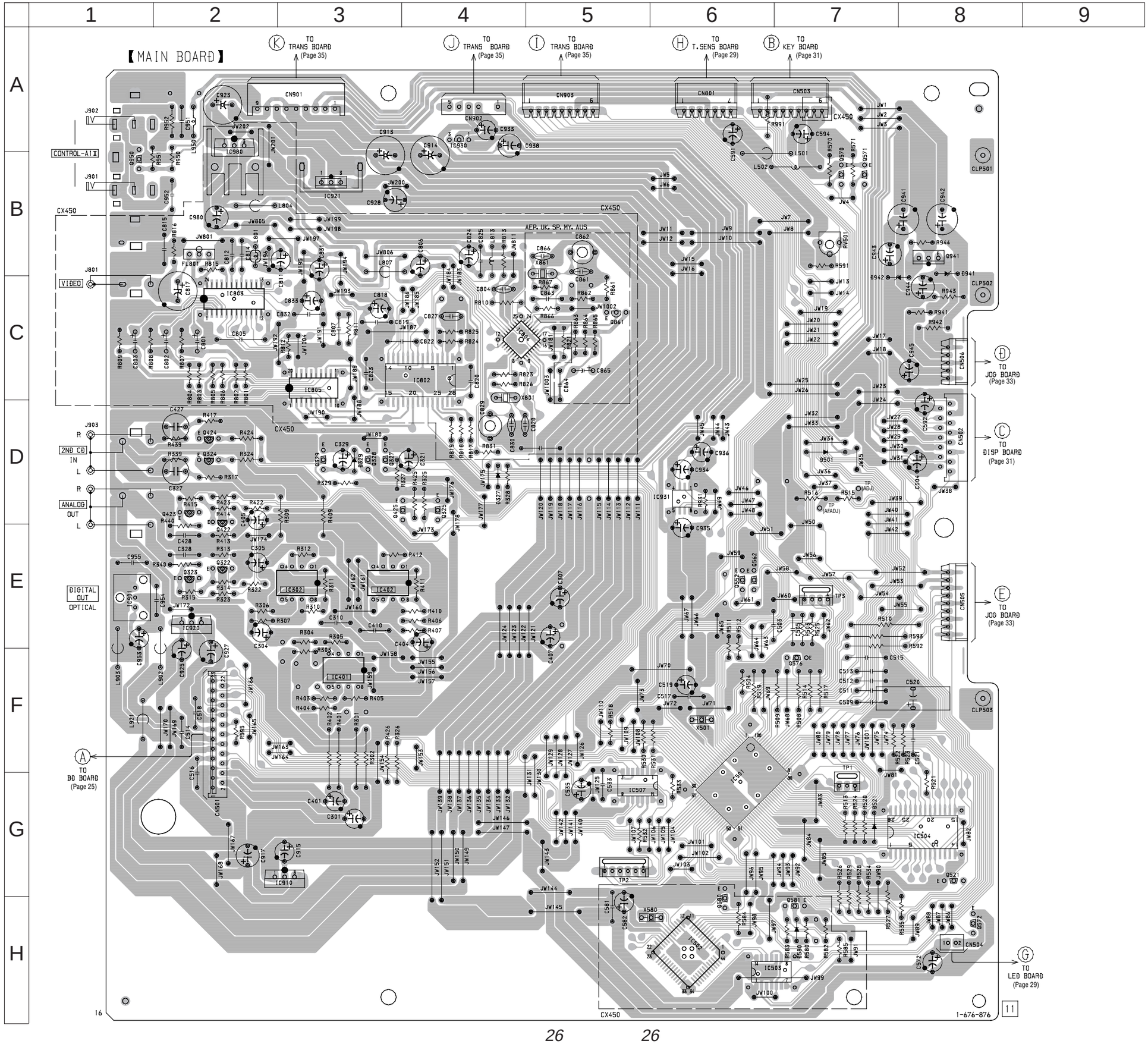


• Semiconductor Location

Ref. No.	Location
IC101	C-5
IC102	B-2
IC103	C-4
Q101	C-3

7-5. Printed Wiring Board – MAIN Section –

• See page 20 for Circuit Boards Location.

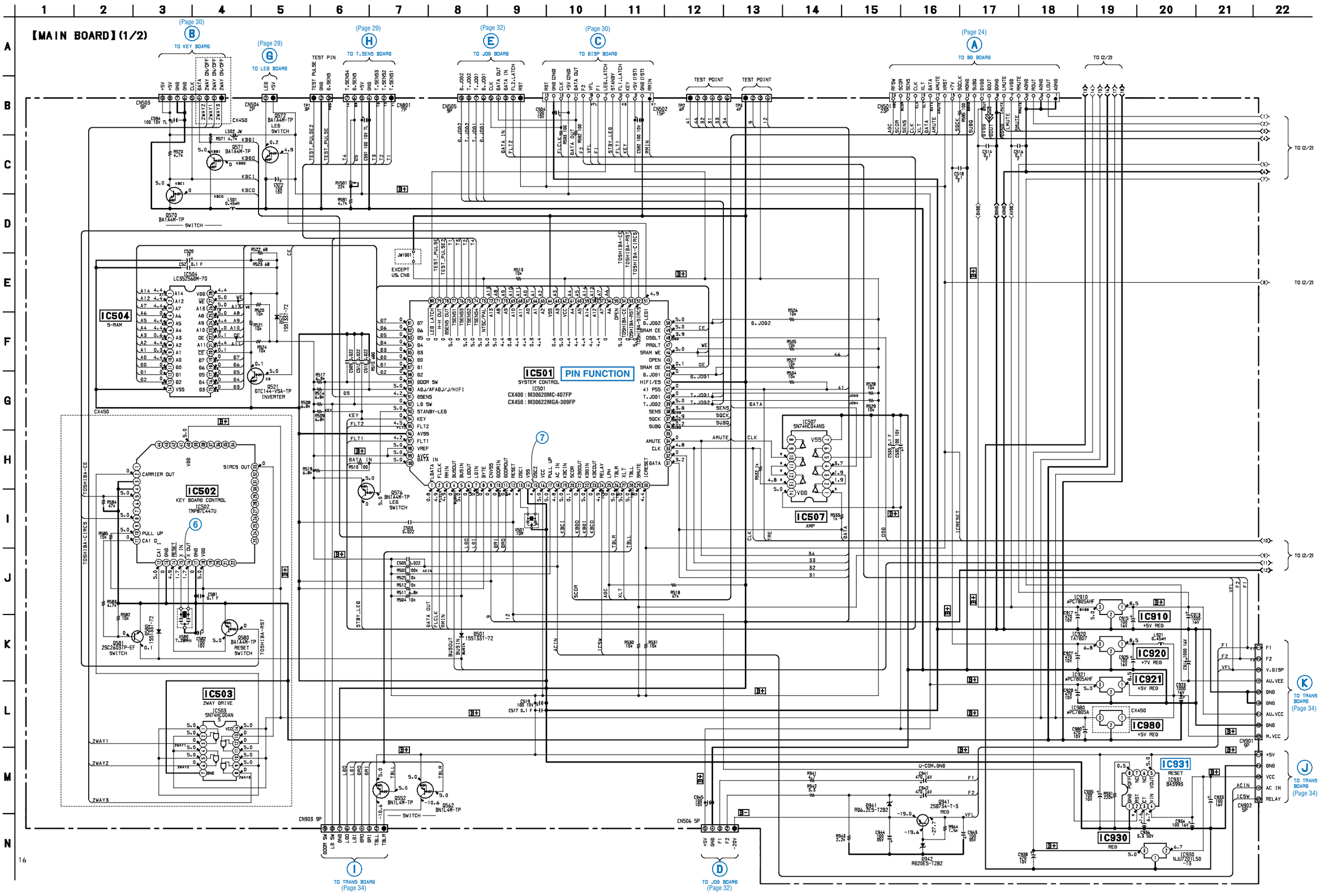


• Semiconductor Location

Ref. No.	Location
D327	D-4
D329	D-3
D501	D-7
D521	G-7
D580	H-7
D941	C-8
D942	C-8
IC302	E-3
IC401	F-3
IC402	E-3
IC501	F-6
IC501	F-6
IC502	H-6
IC503	H-7
IC504	G-8
IC507	G-5
IC802	C-4
IC803	C-2
IC804	C-5
IC805	C-3
IC901	E-1
IC910	G-3
IC920	E-2
IC921	B-3
IC930	A-4
IC931	D-6
IC980	A-2
Q322	E-2
Q323	E-2
Q324	D-2
Q325	D-4
Q327	D-3
Q328	D-3
Q329	D-3
Q422	D-2
Q423	D-2
Q424	D-2
Q425	D-3
Q521	G-8
Q552	E-6
Q562	E-6
Q570	B-7
Q571	B-7
Q572	H-8
Q576	E-7
Q580	G-6
Q581	G-7
Q861	C-5
Q941	B-8
Q950	B-1

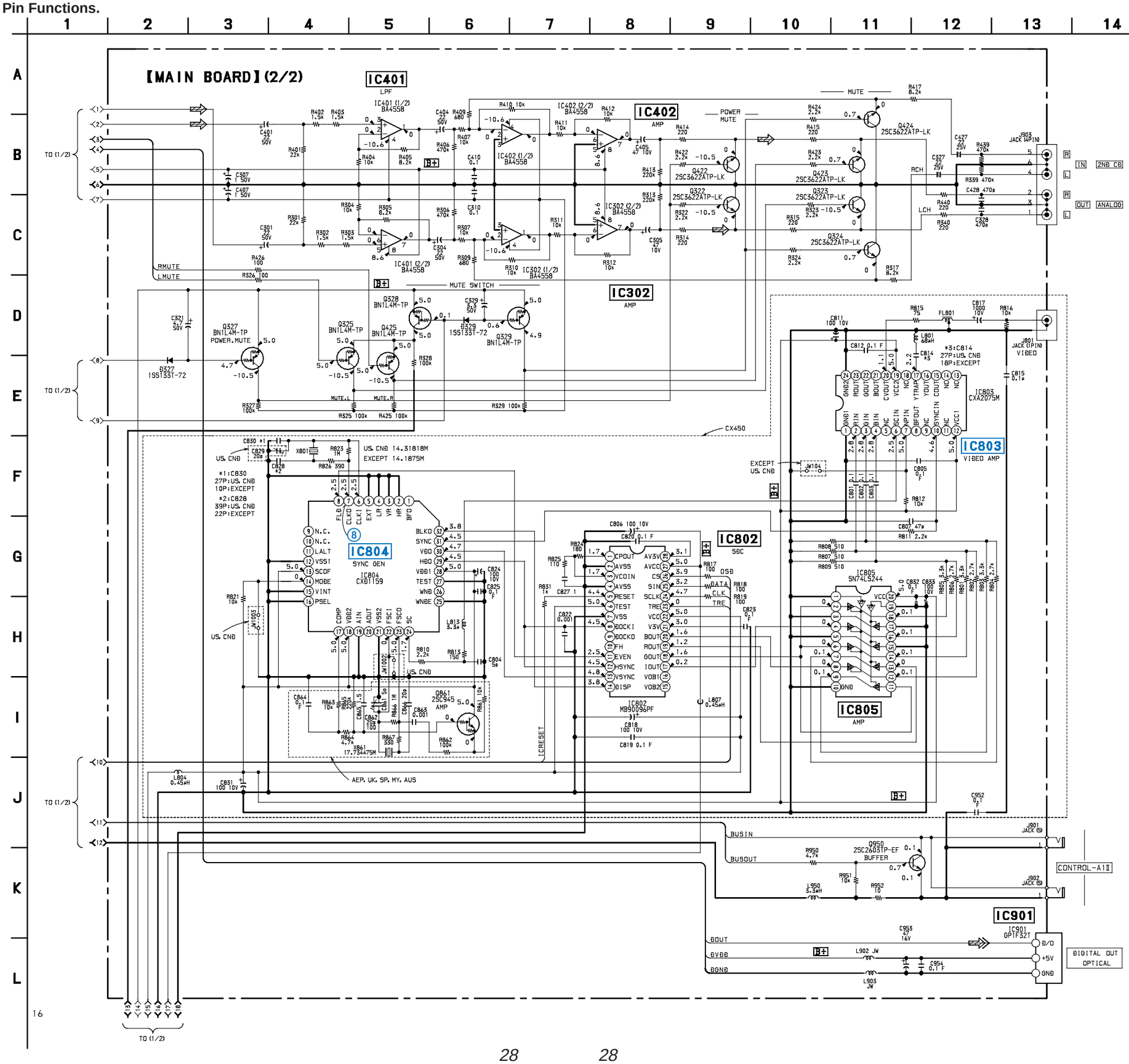
7-6. Schematic Diagram – MAIN (1/2) Section –

- See page 23 for Waveforms.
- See page 36, 37 for IC Block Diagrams.



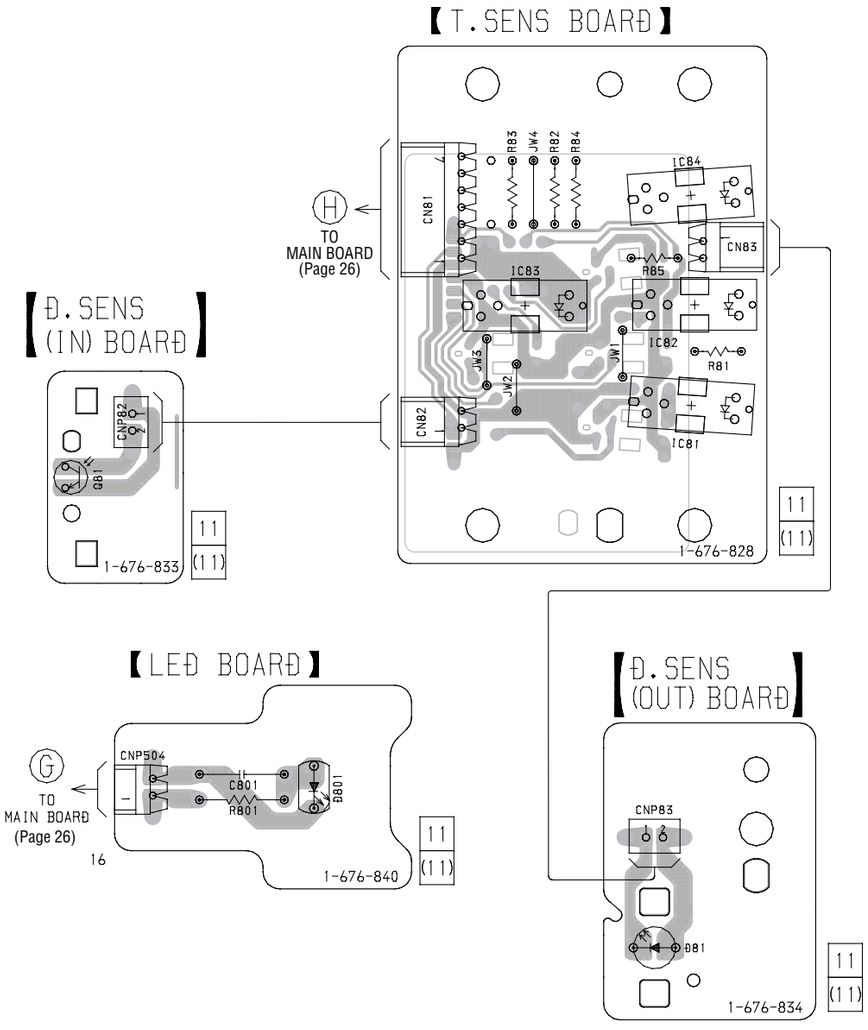
7-7. Schematic Diagram – MAIN (2/2) Section –

- See page 23 for Waveforms.
- See page 36 for IC Block Diagrams.
- See page 40 for IC Pin Functions.

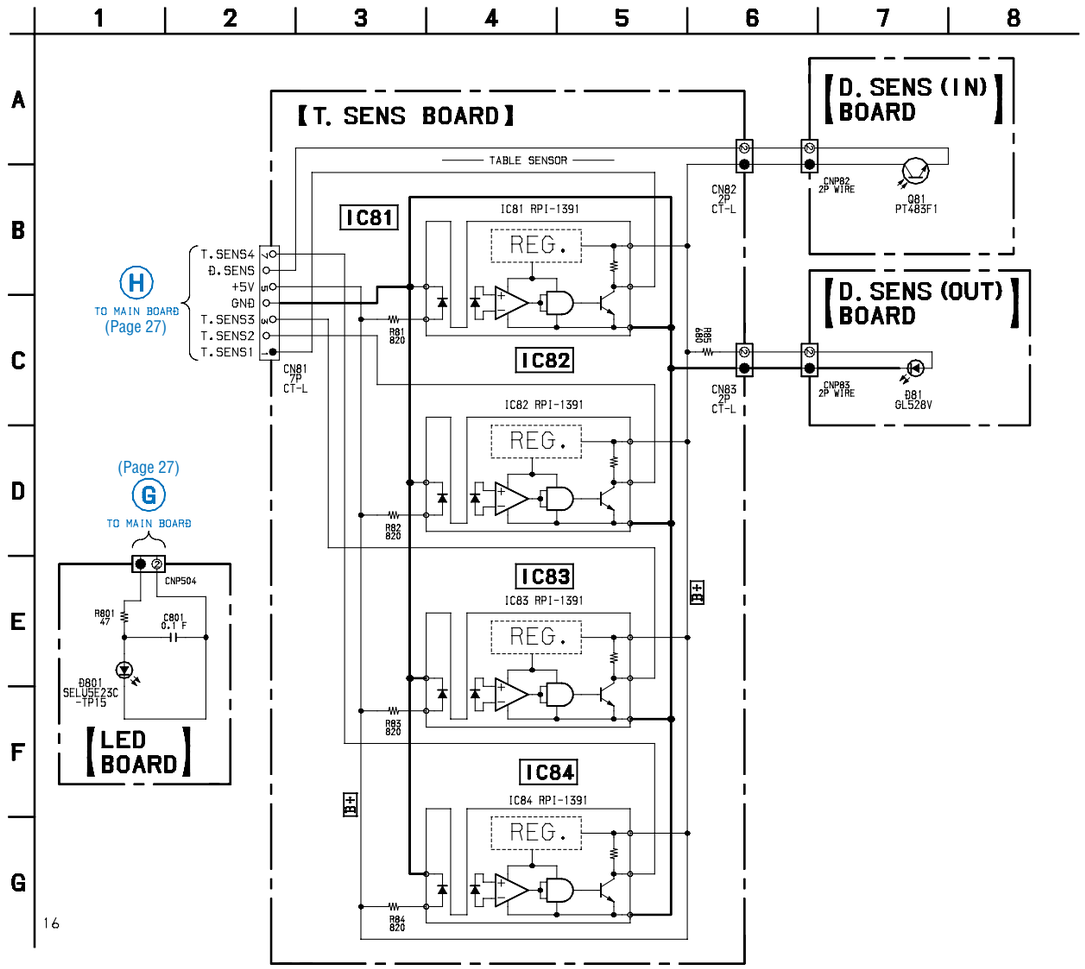


7-8. Printed Wiring Board – SENSOR Section –

• See page 20 for Circuit Boards Location.



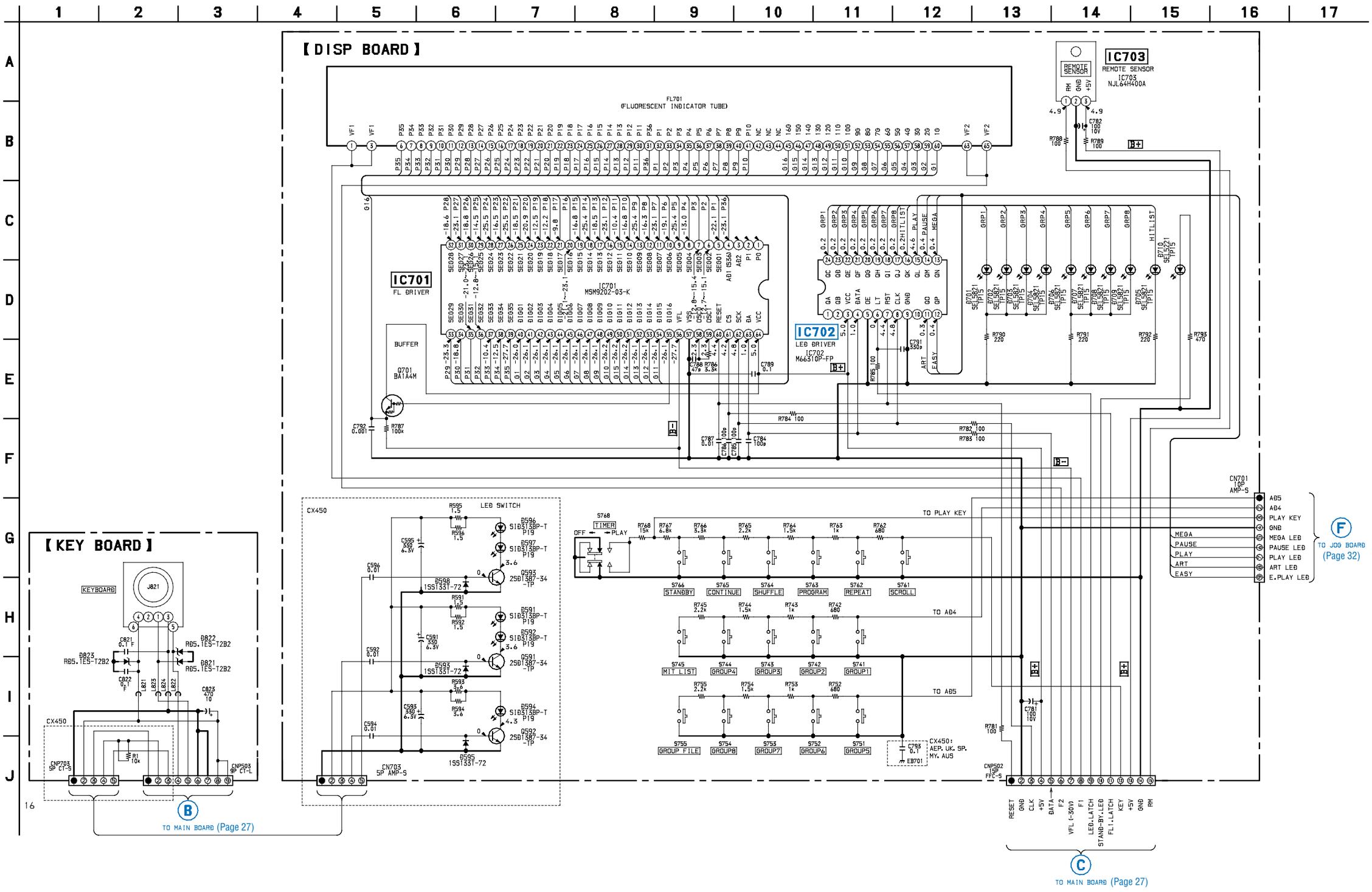
7-9. Schematic Diagram – SENSOR Section –



7-10. Schematic Diagram – DISPLAY Section –

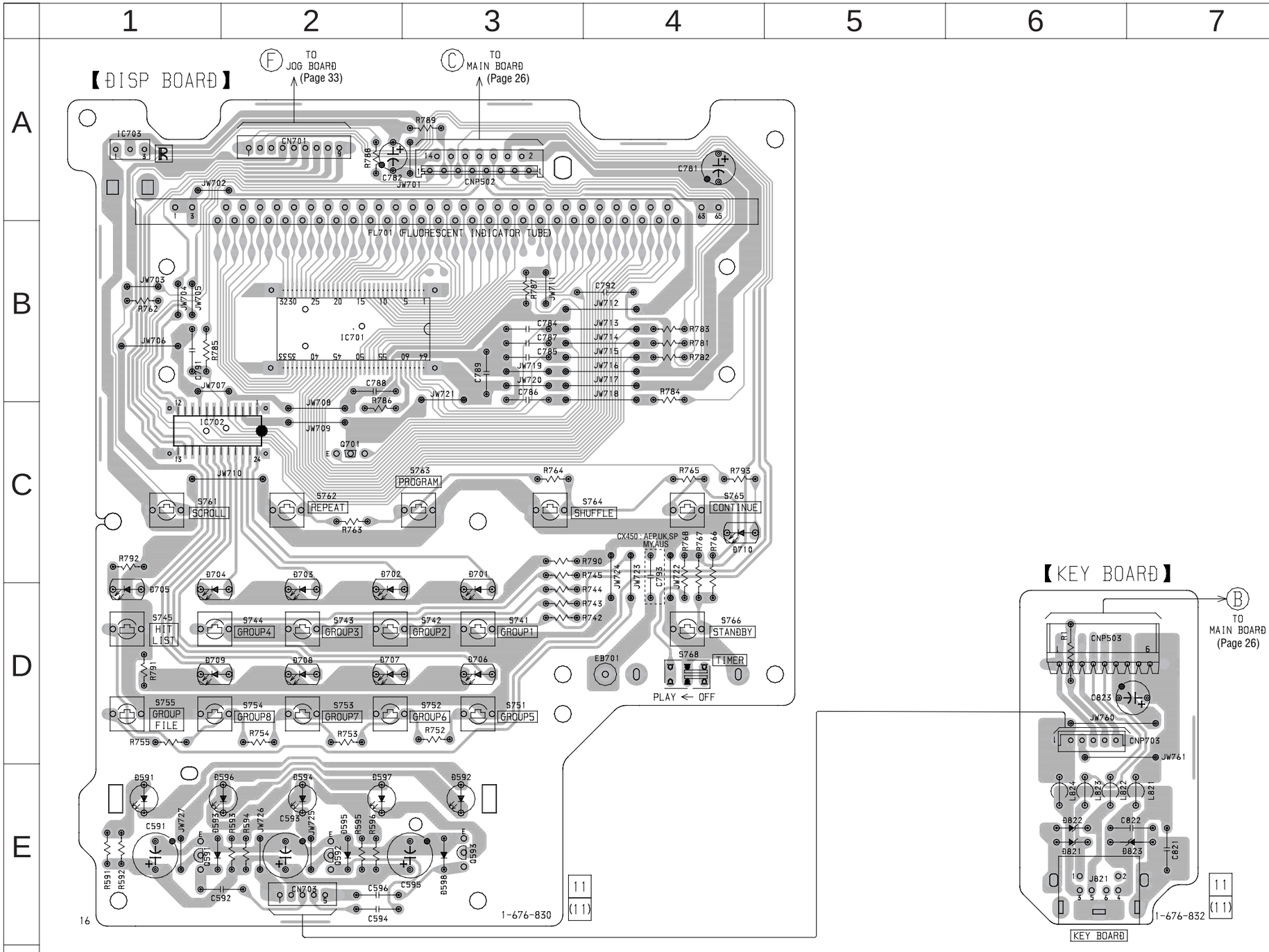
• See page 23 for Waveforms.

• See page 37 for IC Block Diagrams.



7-11. Printed Wiring Board – DISPLAY Section –

• See page 20 for Circuit Boards Location.

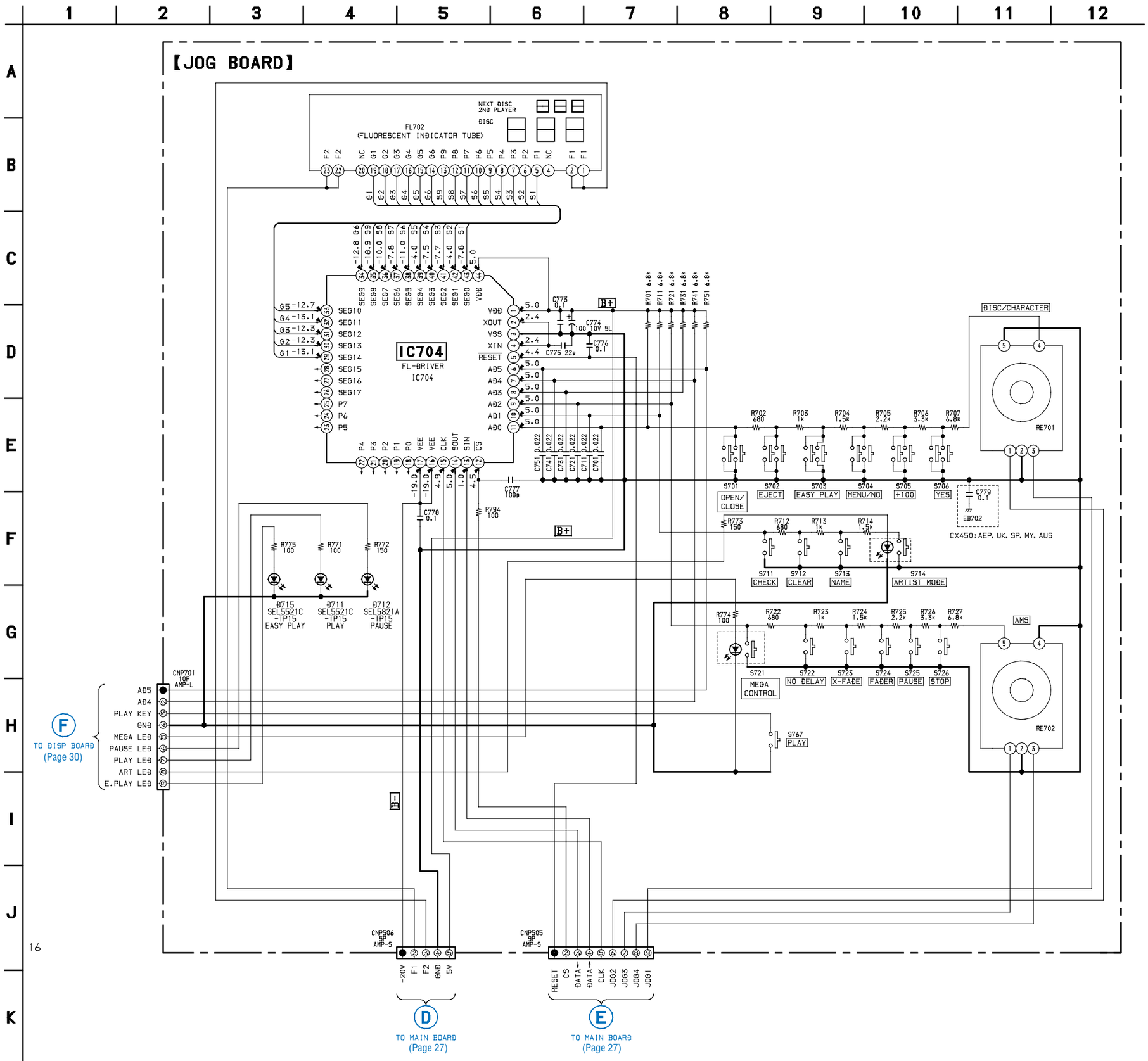


• **Semiconductor Location**

Ref. No.	Location
D591	E-1
D592	E-3
D593	E-1
D594	E-2
D595	E-2
D596	E-1
D597	E-2
D598	E-3
D701	D-3
D702	D-2
D703	D-2
D704	D-1
D705	D-1
D706	D-3
D707	D-2
D708	D-2
D709	D-1
D710	C-4
IC701	B-2
IC702	C-1
IC703	A-1
Q591	E-1
Q592	E-2
Q593	E-3
Q701	C-2

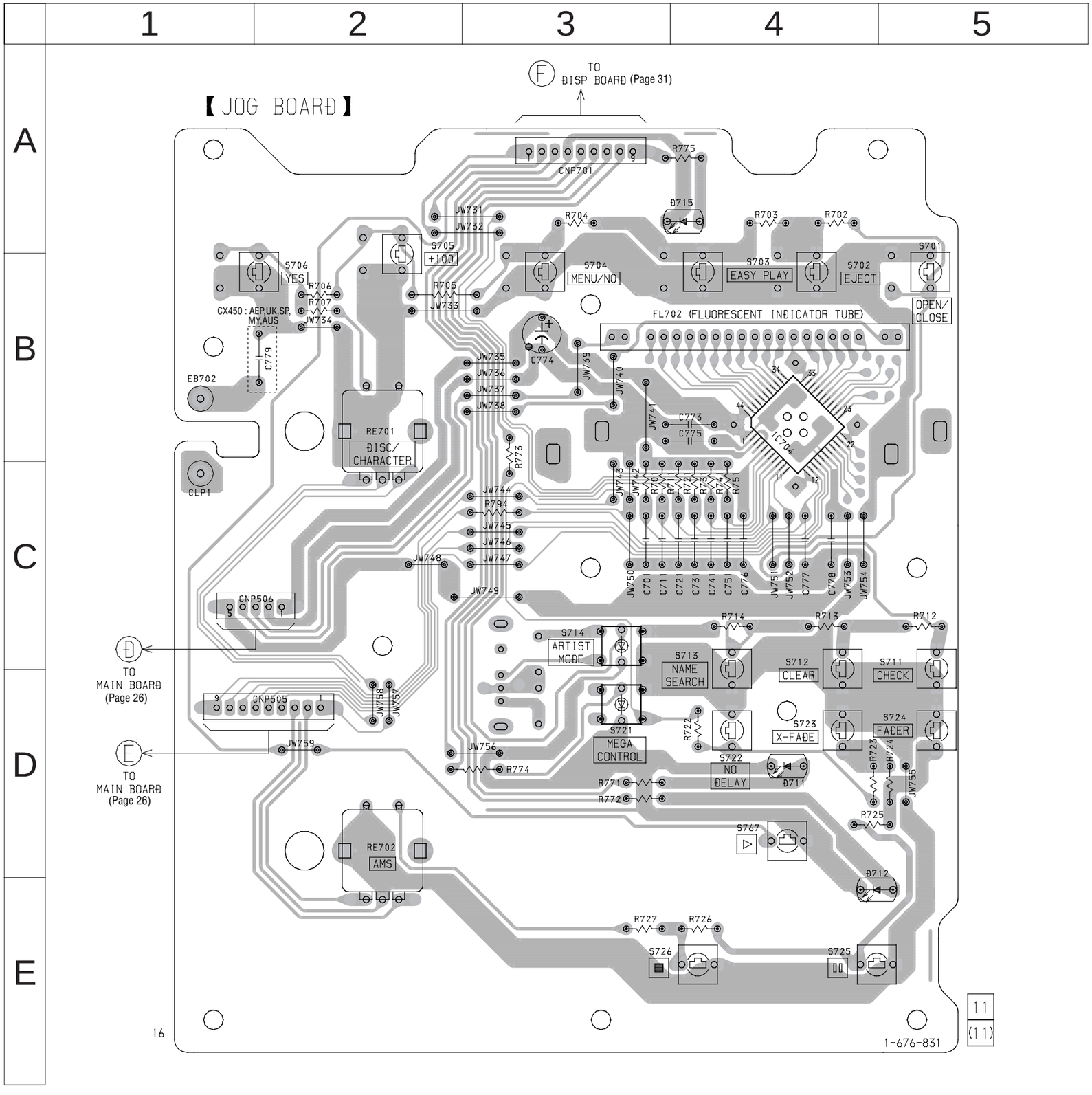
7-12. Schematic Diagram – JOG Section –

• See page 23 for Waveforms.



7-13. Printed Wiring Board – JOG Section –

• See page 20 for Circuit Boards Location.



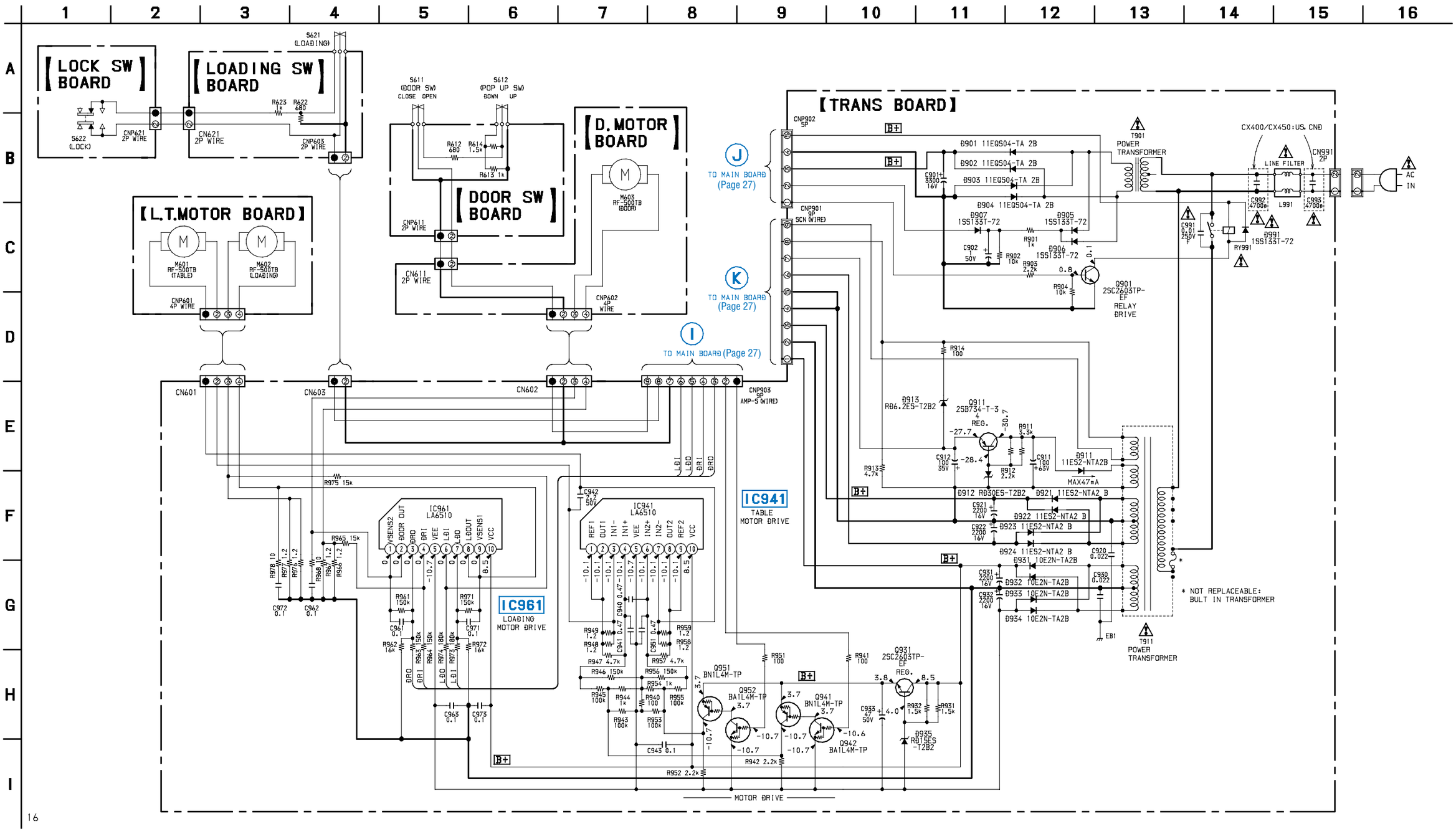
• Semiconductor Location

Ref. No.	Location
D711	D-4
D712	E-5
D715	A-4
IC704	B-4

7-14. Schematic Diagram – POWER Section –

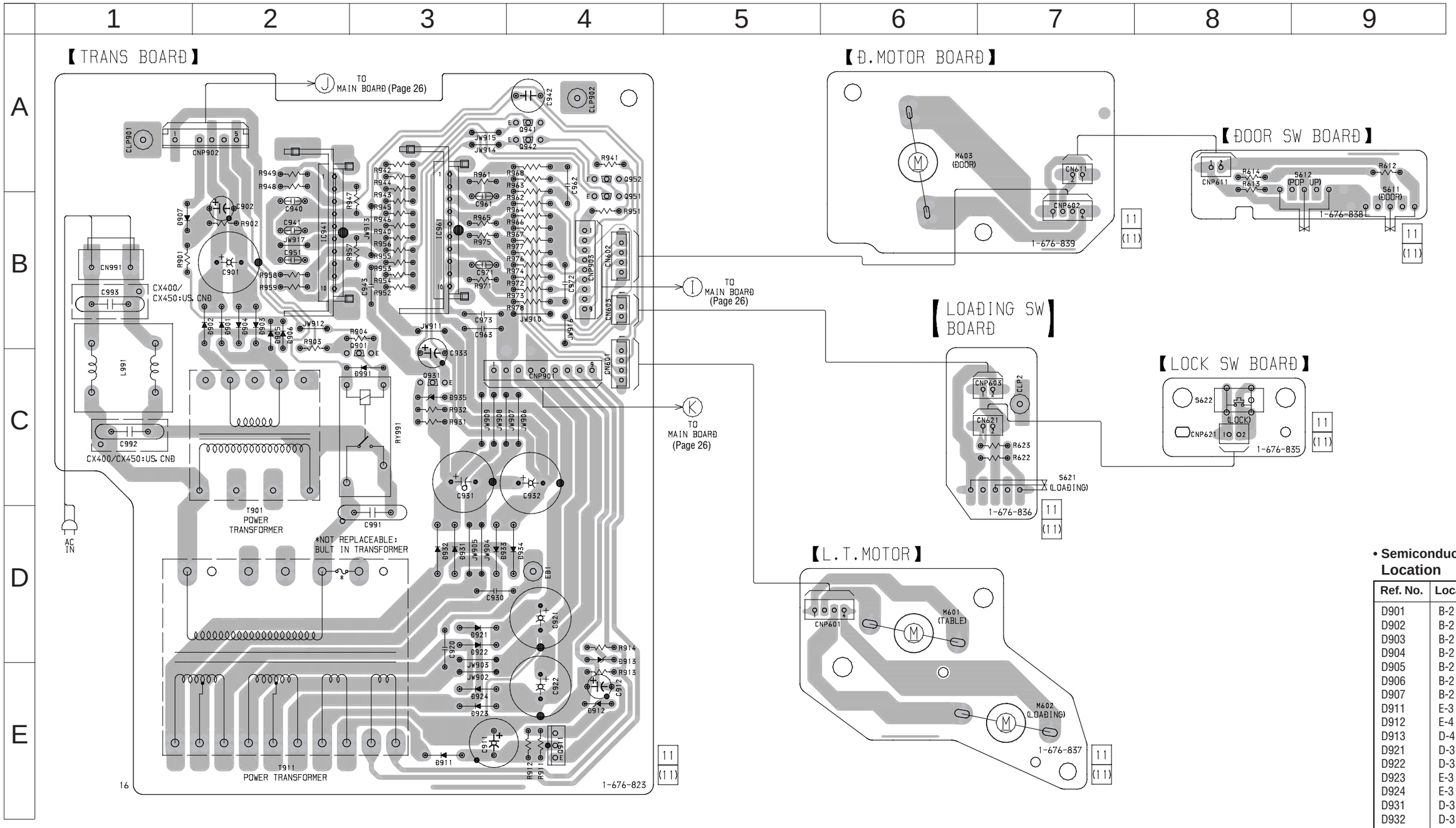
• See page 23 for Waveforms.

• See page 37 for IC Block Diagrams.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-15. Printed Wiring Board – POWER Section –

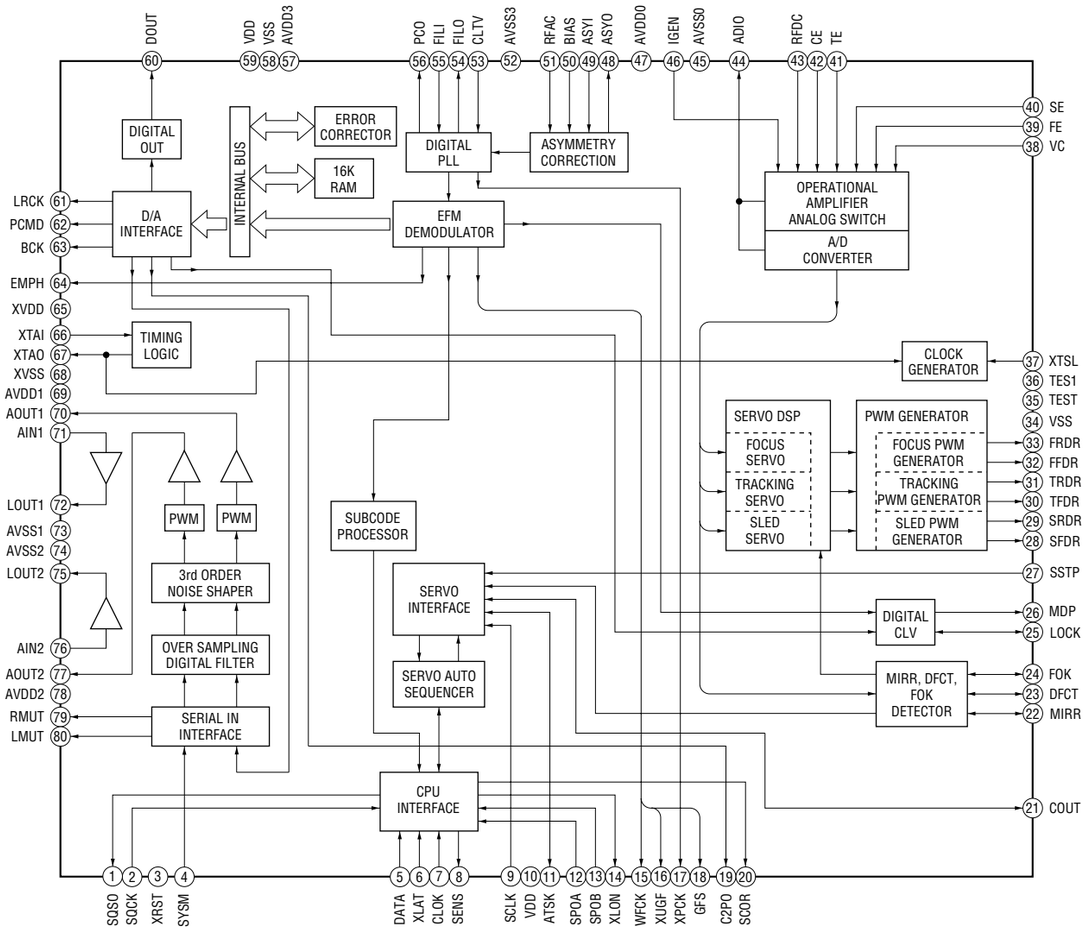


• **Semiconductor Location**

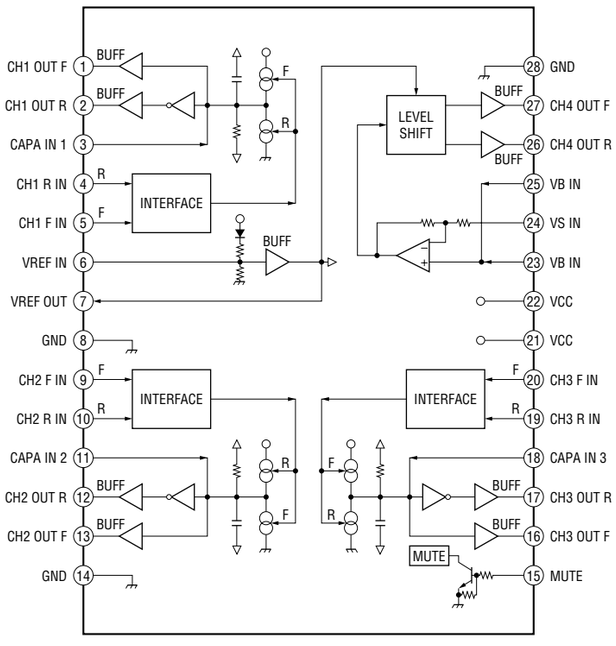
Ref. No.	Location
D901	B-2
D902	B-2
D903	B-2
D904	B-2
D905	B-2
D906	B-2
D907	B-2
D911	E-3
D912	E-4
D913	D-4
D921	D-3
D922	D-3
D923	E-3
D924	E-3
D931	D-3
D932	D-3
D933	D-4
D934	D-4
D935	C-3
D991	C-3
IC941	B-2
IC961	B-3
Q901	B-3
Q911	E-4
Q931	C-3
Q941	A-4
Q942	A-4
Q951	A-4
Q952	A-4

7-16. IC BLOCK DIAGRAMS

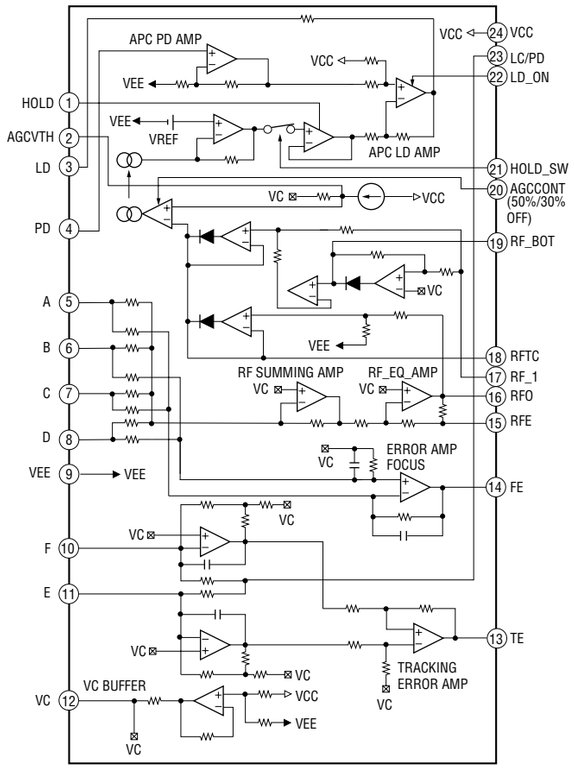
IC101 CXD2587Q (BD BOARD)



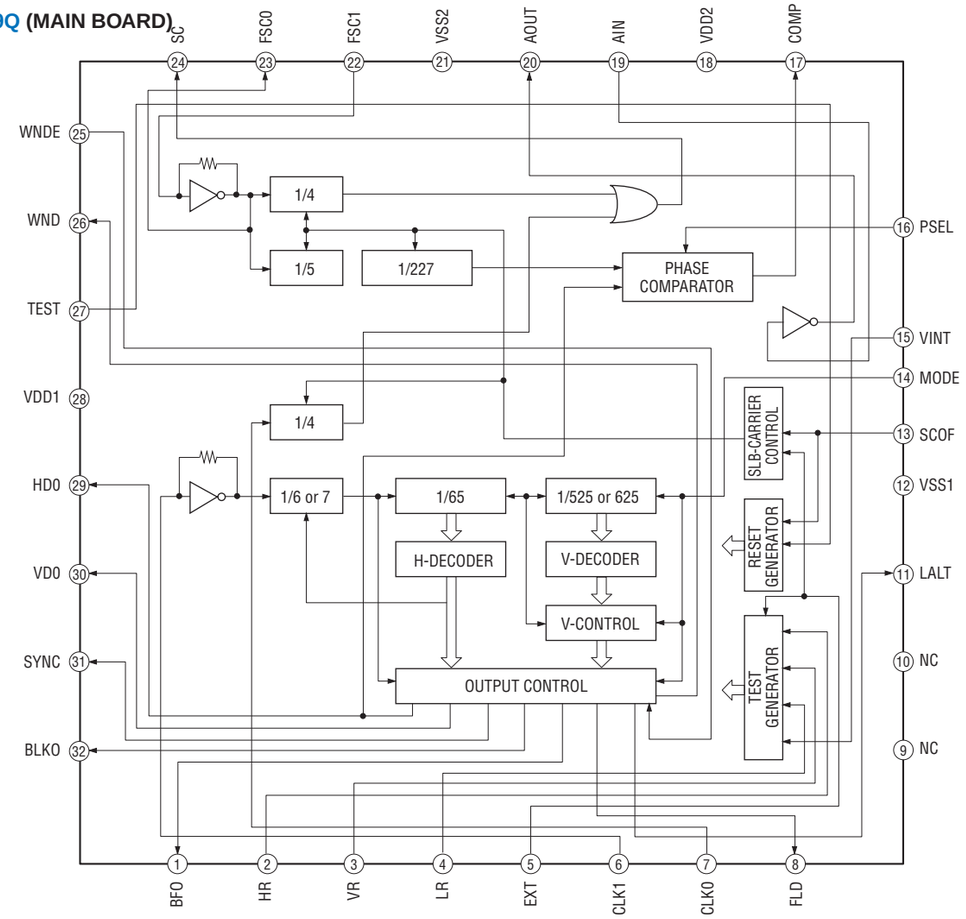
IC102 BA6392FP-E2 (BD BOARD)



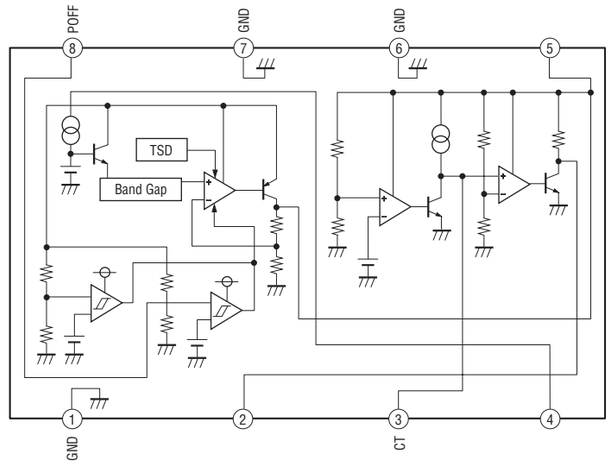
IC103 CXA2568M-T6 (BD BOARD)



IC804 CXD1159Q (MAIN BOARD)

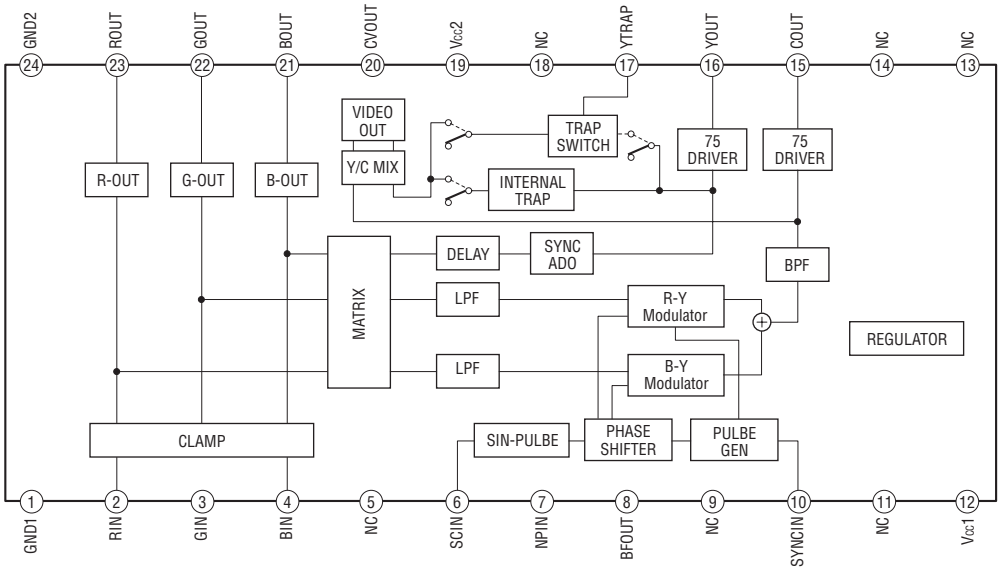


IC931 BA3993F (MAIN BOARD)

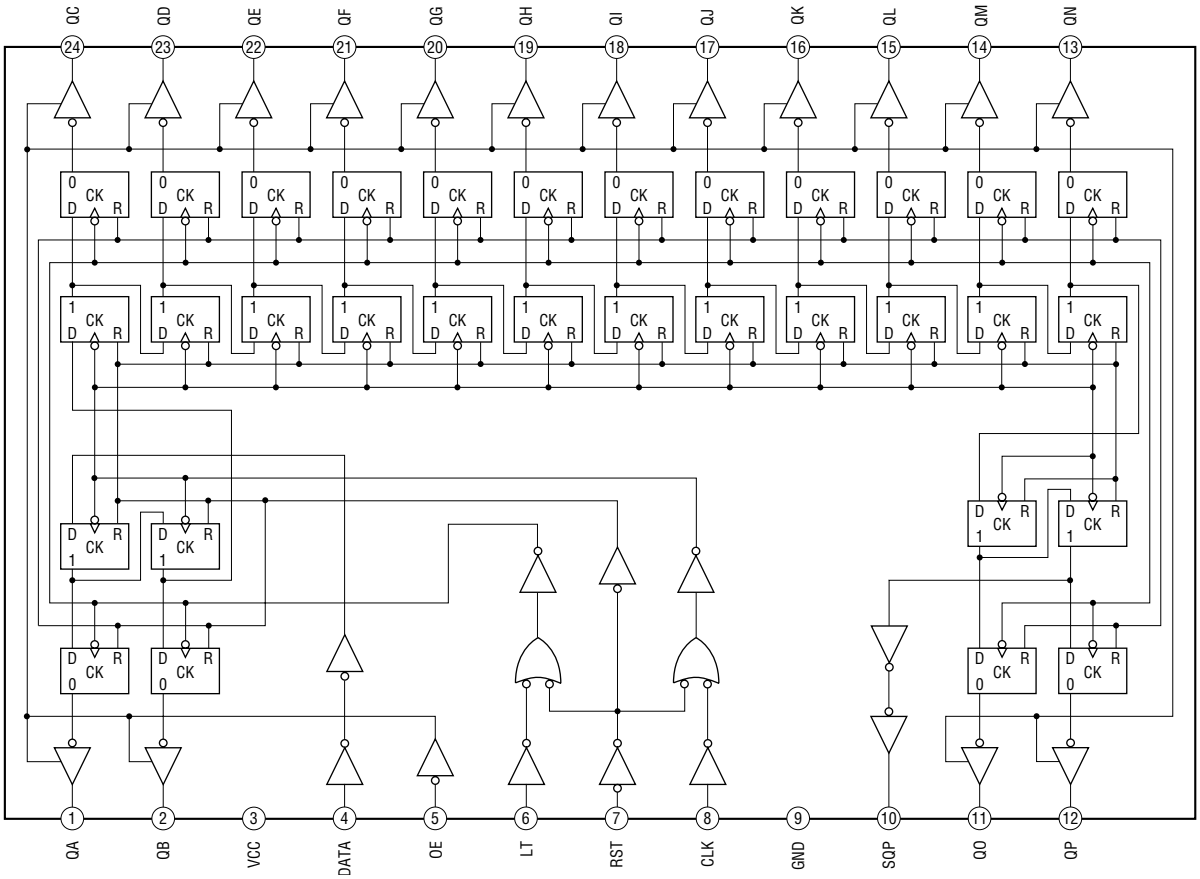


36

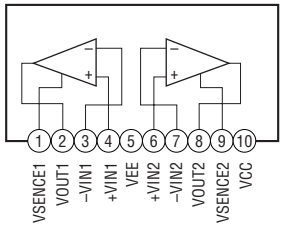
IC803 CXA2075M (MAIN BOARD)



IC702 M66310FP (DISP BOARD)



IC941, IC961 LA6510 (TRANS BOARD)



7-17. IC PIN FUNCTIONS

• IC101 DIGITAL SIGNAL PROCESSOR (CXD2587Q) (BD board)

Pin No.	Pin Name	I/O	Function
1	SQSO	O	Sub-Q 80-bit and PCM peak level data output (CD text data output)
2	SQCK	I	Clock input for SQSO read-out
3	XRST	I	System reset "L" : reset
4	SYSM	I	Muting input "H" : mute
5	DATA	I	Serial data input, supplied from CPU
6	XLAT	I	Latch input, supplied from CPU
7	CLOK	I	Serial data transfer clock input, supplied from CPU
8	SENS	O	SENS signal output to CPU
9	SCLK	I	SENS serial data read-out clock input
10	VDD	—	Digital power supply
11	ATSK	I/O	Input pin for anti-shock (Connected to ground)
12	SPOA	I	Microcomputer escape interface input A
13	SPOB	I	Microcomputer escape interface input B
14	XLON	O	Microcomputer escape interface output
15	WFCK	O	WFCK output (Not used)
16	XUGF	O	Not used
17	XPCK	O	Not used
18	GFS	O	Not used
19	C2PO	O	Not used
20	SCOR	O	Sub-code sync output
21	COUT	I/O	Numbers of track counted signal input/output (Not used)
22	MIRR	I/O	Mirror signal input/output (Not used)
23	DFCT	I/O	Defect signal input/output (Not used)
24	FOK	I/O	Focus OK input/output (Not used)
25	LOCK	I/O	GFS is sampled by 460 Hz. H when GFS is H (Not used)
26	MDP	O	Output to control spindle motor servo
27	SSTP	I	Input signal to detect disc inner most track
28	SFDR	O	Sled drive output
29	SRDR	O	Sled drive output
30	TFDR	O	Tracking drive output
31	TRDR	O	Tracking drive output
32	FFDR	O	Focus drive output
33	FRDR	O	Focus drive output
34	VSS	—	Digital ground
35	TEST	I	TEST pin connected normally to ground
36	TES1	I	TEST pin connected normally to ground
37	XTSL	I	X'tal selection input (Connected to ground)
38	VC	I	Center voltage input pin
39	FE	I	Focus error signal input
40	SE	I	Sled error signal input

• Abbreviation
GFS : Guarded Frame Sync

Pin No.	Pin Name	I/O	Function
41	TE	I	Tracking error signal input
42	CE	I	Center servo analog input
43	RFDC	I	RF signal input
44	ADIO	O	Test pin (Not used)
45	AVSS0	—	Analog ground
46	IGEN	I	Stabilized current input for operational amplifiers
47	AVDD0	—	Analog power supply
48	ASYO	O	EFM full swing output
49	ASYI	I	Asymmetry comparate voltage input
50	BIAS	I	Asymmetry circuit constant current input
51	RFAC	I	EFM signal input
52	AVSS3	—	Analog ground
53	CLTV	I	Control voltage input for master VCO1
54	FILO	O	Filter output for master PLL
55	FILI	I	Filter input for master PLL
56	PCO	O	Charge-pump output for master PLL
57	AVDD3	—	Analog power supply
58	VSS	—	Digital ground
59	VDD	—	Digital power supply
60	DOUT	O	Digital-out output pin
61	LRCK	O	D/A interface LR clock output (f = Fs) (Not used)
62	PCMD	O	D/A interface serial data output (Not used)
63	BCK	O	D/A interface bit clock output (Not used)
64	EMPH	O	Playback disc output in emphasis mode (Not used)
65	XVDD	—	Power supply for master clock
66	XTAI	I	X'tal oscillator circuit input (16.9344MHz)
67	XTAO	O	X'tal oscillator circuit output (16.9344MHz)
68	XVSS	—	Ground for master clock
69	AVDD1	—	Analog power supply
70	AOUT1	O	L-ch analog output
71	AIN1	I	L-ch operational amplifiers input
72	LOUT1	O	L-ch line output
73	AVSS1	—	Analog ground
74	AVSS2	—	
75	LOUT2	O	R-ch line output
76	AIN2	I	R-ch operational amplifiers input
77	AOUT2	O	R-ch analog output
78	AVDD2	—	Analog power supply
79	RMUT	O	R-ch “0” detection flag output
80	LMUT	O	L-ch “0” detection flag output

• Abbreviation
EFM : Eight to Fourteen Modulation
PLL : Phase Locked Loop

- **IC501 SYSTEM CONTROL (M30620MC-407FP) (CX400) (MAIN board)**
- **IC501 SYSTEM CONTROL (M30622MGA-309FP) (CX450) (MAIN board)**

Pin No.	Pin Name	I/O	Function
1	FLDATA	O	Data output to fluorescent indicator driver
2	FLCLK	O	Clock output to fluorescent indicator driver
3	RM_IN	I	SIRCS input
4	BUSOUT	O	Ctrl-A1 output
5	BUSIN	I	Ctrl-A1 input
6	LODOUT	O	Loading motor OUT direction signal
7	LODIN	O	Loading motor IN direction signal
8	GND	—	Data bus width selection input
9	GND	—	Chip operation mode selection
10	P_DOOR_OUT	O	Door motor "open" direction
11	P_DOOR_IN	O	Door motor "close" direction
12	RESET	I	Reset input
13	10MHz	I	Oscillator output
14	GND	—	Power supply input
15	10MHz	I	External oscillator is connected to this input.
16	Vcc	—	Power supply input
17	PULL-UP	I	Non-maskable interrupt port. Pulled-up.
18	ACIN	I	AC input
19	KBCIN	I	Keyboard clock input
20	SCOR	I	CXD2587 synchronous signal input
21	KBDOUT	O	Keyboard data output
22	KBDIN	I	Keyboard data input
23	KBCOUT	O	Keyboard clock output
24	ICSW	O	Terminal to supply power to peripheral ICs
25	LPH	O	CXD2587 LPH output
26	TBLR	O	Table motor clockwise direction
27	XLT	O	CXD2587 XLY output
28	TBLL	O	Table motor counterclockwise direction
29	SMUTE	O	2nd audio input, mute output
30	ICRESET	O	Peripheral IC reset output
31	DATA	O	CXD2587/OSD/DF data output
32	OPEN	—	Use is prohibited.Not used
33	CLK	O	CXD2587/OSD/DF clock output
34	AMUTE	O	CXD2587 mute output
35	OPEN	—	Not used.
36	SUBQ	I	Q data input port
37	SQCK	O	Q data read clock output
38	SENS	I	Sense input from CXD2587
39	TJOGB	I	AMS JOG input
40	TJOGA	I	AMS JOG input
41	TRE	I	OSD busy input (CX450)
42	SEL_ES	I	HiFi/ES select input
43	JOGA	I	Disc JOG input
44	OE	O	SRAM output enable
45	OPEN	—	Not used.
46	WE	O	SRAM write enable
47	PRGLT	O	Not used.
48	OSDLT	O	OSD latch output (CX450)
49	CS	O	SRAM CS output

Pin No.	Pin Name	I/O	Function
50	JOGB	O	Disc JOG input
51	LED	O	Interal illumination LED output
52	TOSHIBA_SIRCS	O	Bidirectional microprocessor 455 kHz output enable output (CX450)
53	TOSHIBA_RST	O	Bidirectional microprocessor reset output (C450)
54	TOSHIBA/CE	O	Bidirectional microprocessor bidirectional function ON/OFF(CX450)
55	OPEN	—	Not used.
56	A14	O	SRAM address output
57	A13	O	
58	A12	O	
59	A11	O	
60	A10	O	
61	A9	O	
62	Vcc	—	Power supply terminal
63	A8	O	
64	Vcc	—	SRAM address output
65	A7	O	
66	A6	O	
67	A5	O	
68	A4	O	
69	A3	O	
70	A2	O	
71	A1	O	
72	A0	O	
73	NTSC	I	OSD NTSC output (CX450)
74	TSENS4	I	Table sensor input
75	TSENS2	I	
76	TSENS3	I	
77	TSENS1	I	
78	DSOUT	I	Disc sensor read result output
79	HHOUT	O	OR output of TSENS1/2
80	LEDLT	O	LED driver latch output
81	D7	I	SRAM data
82	D6	I	
83	D5	I	
84	D4	I	
85	D3	I	
86	D2	I	
87	D1	I	
88	D0	I	
89	DOORSW	I	Door switch input (A/D)
90	SELECT	I	Selector (ADJ/AFADJ)
91	DSENS	I	Disc sensor input (A/D)
92	LOADINGSW	I	Loading switch input (A/D)
93	STNBY_L	O	Standby LED output
94	KEY	I	Key input (A/D)
95	FLT2	O	Fluorescent indicator driver (M35500) latch output
96	Avss	—	Analog power supply input
97	FLT	O	Fluorescent indicator driver (MSM9202) latch output
98	Vref	I	Standard voltage input
99	Avss	I	Analog power supply input
100	FLDATA_I	—	Data input from fluorescent indicator driver (M35500)

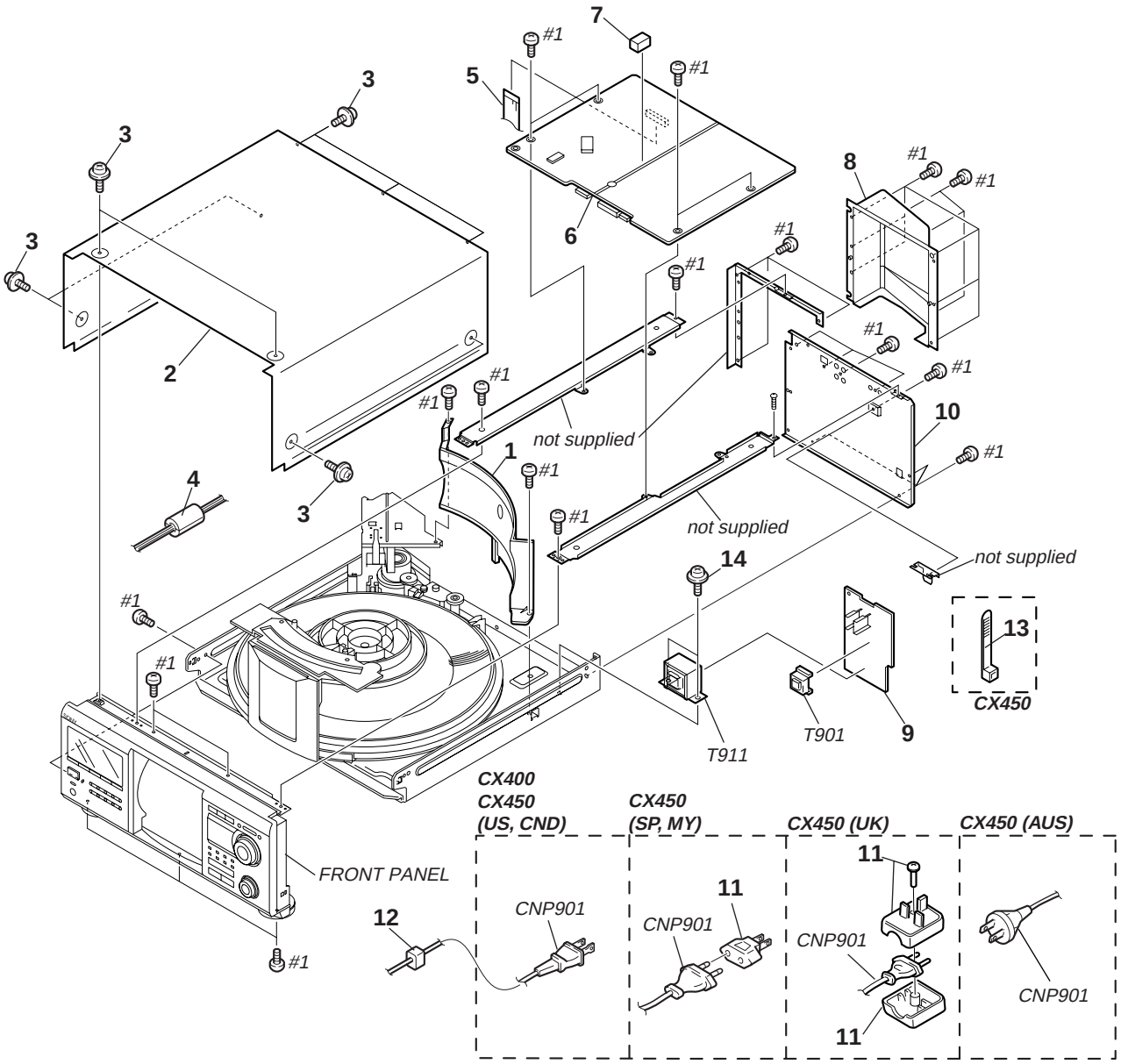
SECTION 8
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . . (RED)
  ↑ ↑
  Parts color Cabinets color
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  AUS : Australian model
  SP : Singapore model.
  MY : Malaysia model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

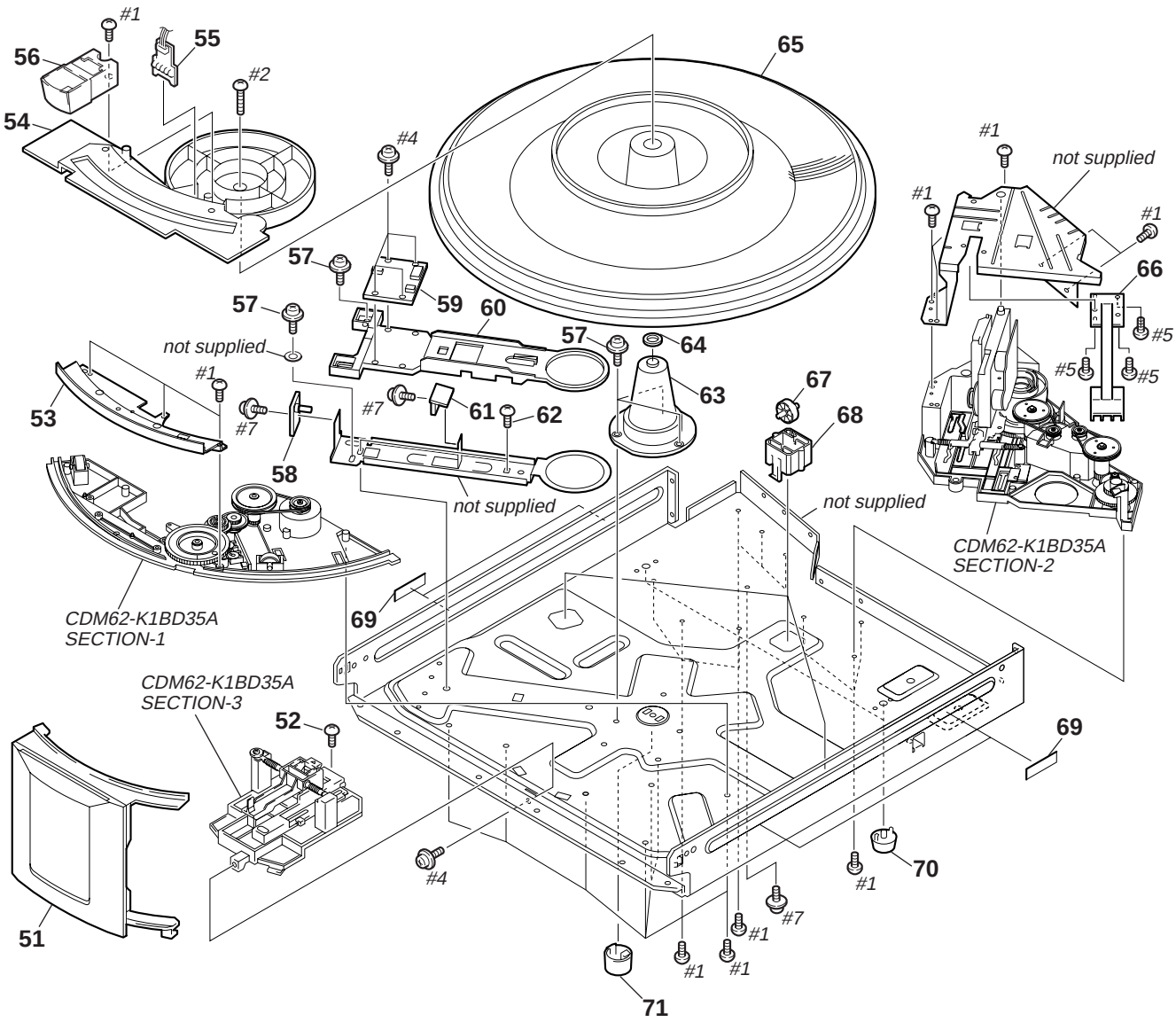
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

8-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	4-226-841-01	COVER(PT)	
2	4-226-855-11	UPPER CASE	
3	4-210-291-01	SCREW(CASE 3 TP2)	
4	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	(CX450:US,CND)
5	1-792-466-11	WIRE(FLAT TYPE) (23 CORE)	
6	A-4725-033-A	MAIN BOARD, COMPLETE (CX450:US,CND)	
6	A-4725-038-A	MAIN BOARD, COMPLETE	(CX450:AEP,UK,SP,MY,AUS)
6	A-4725-053-A	MAIN BOARD, COMPLETE (CX400)	
7	4-985-553-11	CUSHION	
8	4-226-876-01	COVER(CDM)	
9	A-4725-034-A	TRANS BOARD, COMPLETE (CX450:AUS)	
9	A-4725-039-A	TRANS BOARD, COMPLETE	(CX450:AEP,UK,SP,MY)
9	A-4725-051-A	TRANS BOARD, COMPLETE (CX400/	CX450:US,CND)
10	4-226-838-01	PANEL, BACK (CX400:US)	
10	4-226-838-11	PANEL, BACK (CX400:CND)	
10	4-226-838-21	PANEL, BACK (CX450:US)	
10	4-226-838-31	PANEL, BACK (CX450:CND)	
10	4-226-838-41	PANEL, BACK (CX450:AEP,UK)	
10	4-226-838-51	PANEL, BACK (CX450:AUS)	
10	4-226-838-61	PANEL, BACK (CX450:SP,MY)	
11	1-569-008-21	ADAPTOR, CONVERSION (CX450:SP,MY)	
11	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (CX450:UK)	
* 12	3-703-244-00	BUSHING (2104), CORD	
14	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6	
⚠CNP901	1-696-845-11	CORD, POWER (CX450:AUS)	
⚠CNP901	1-777-071-31	CORD, POWER (CX450:AEP,UK,SP,MY)	
⚠CNP901	1-783-531-41	CORD, POWER (CX400/CX450:US,CND)	
⚠T901	1-433-666-11	TRANSFORMER, POWER (CX400/	CX450:US,CND)
⚠T901	1-433-668-11	TRANSFORMER, POWER	(CX450:AEP,UK,SP,MY)
⚠T901	1-433-877-11	TRANSFORMER, POWER (CX450:AUS)	
⚠T911	1-435-327-11	TRANSFORMER, POWER (CX400/	CX450:US,CND)
⚠T911	1-435-328-11	TRANSFORMER, POWER	(CX450:AEP,UK,SP,MY,AUS)

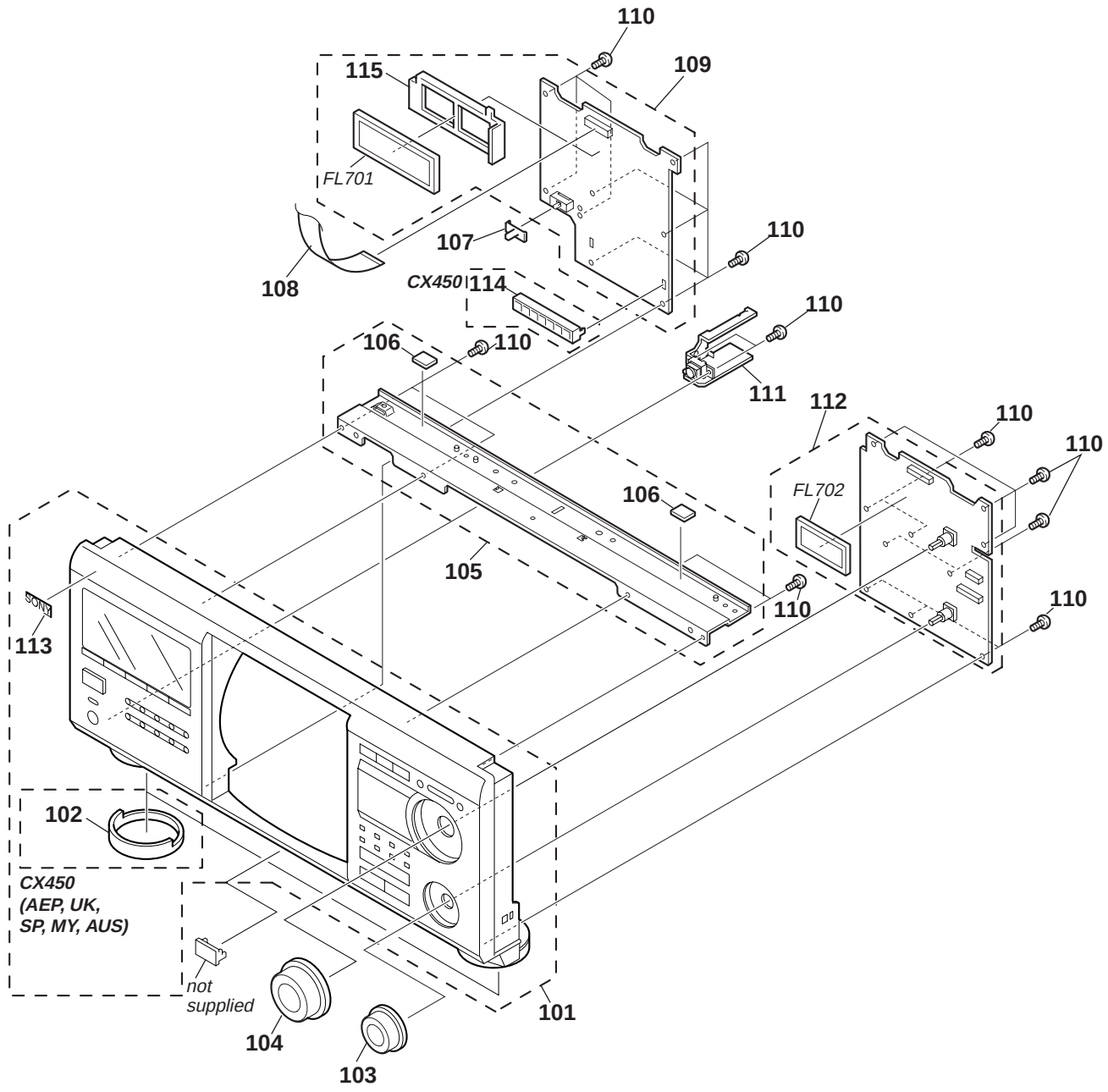
8-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
51	X-4952-641-1	DOOR ASSY	
52	3-356-601-11	SCREW, STEP	
53	4-226-834-01	COVER (TABLE)	
54	4-226-833-01	GUIDE (DOOR)	
55	1-676-840-11	LED BOARD	
56	4-215-968-01	WINDOW (INTERNAL ILLUMINATION)	
57	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6	
58	1-676-834-11	D.SENS (OUT) BOARD	
59	1-676-828-11	T.SENS BOARD	
60	4-225-873-01	HOLDER (TABLE SENSOR 400)	

Ref. No.	Part No.	Description	Remark
61	1-676-833-11	D.SENS (IN) BOARD	
62	4-216-096-01	SCREW (T1), STEP	
63	4-216-089-01	SHAFT (CENTER)	
64	3-701-447-21	WASHER, 10	
65	X-4952-500-1	TABLE (400) ASSY	
66	4-216-088-02	GUIDE (DISC)	
67	4-216-093-01	ROLLER	
68	4-216-092-02	HOLDER (ROLLER)	
* 69	3-378-400-01	CUSHION, SARANET	
70	4-965-822-12	FOOT	
71	4-931-169-01	FOOT	

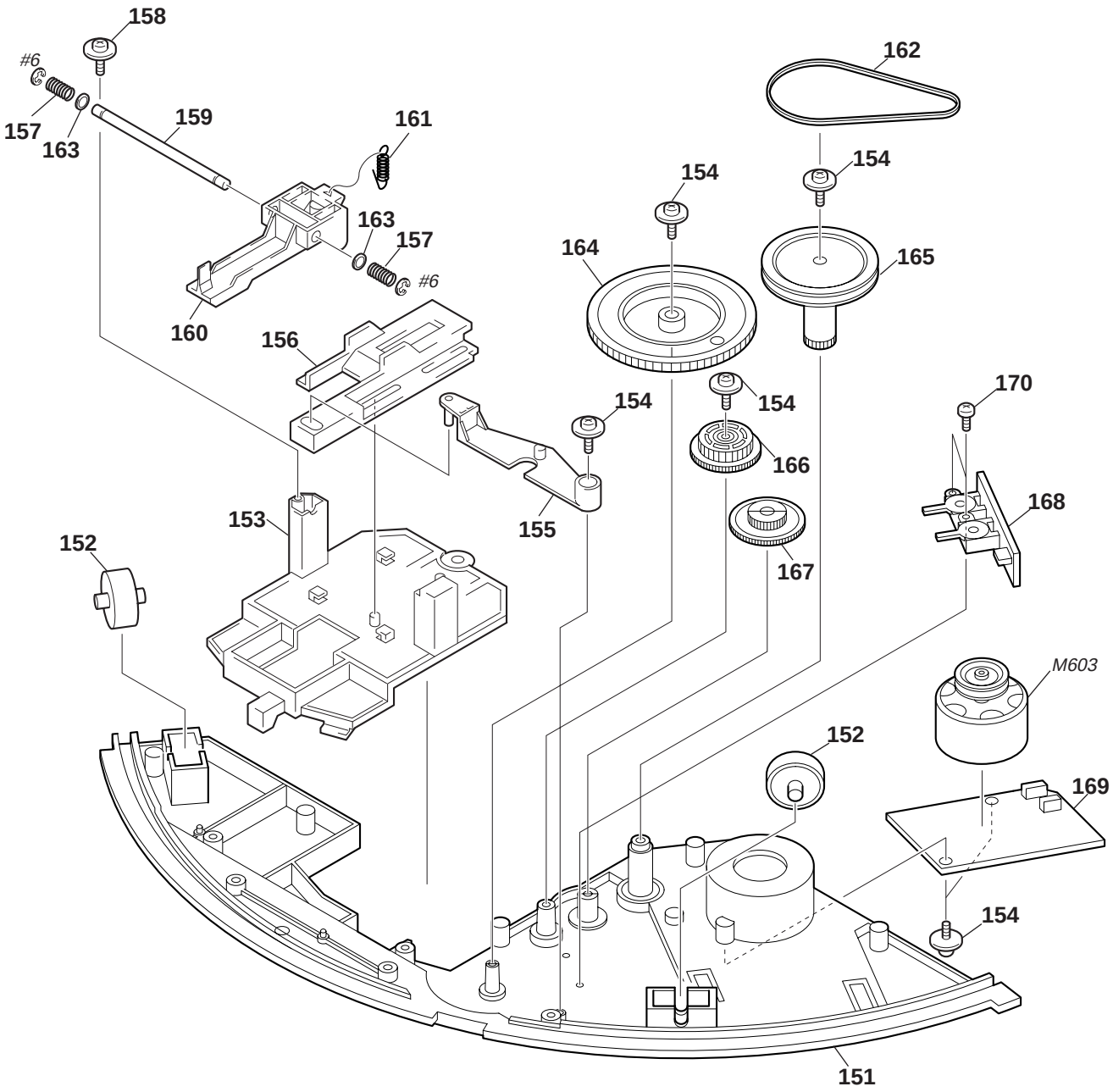
8-3. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
101	X-4952-636-1	PANEL ASSY, FRONT (CX400)	
101	X-4952-637-1	PANEL ASSY, FRONT (CX450:US,CND)	
101	X-4952-638-1	PANEL ASSY, FRONT	
		(CX450:AEP,UK,SP,MY,AUS)	
102	4-219-323-01	RING (DIA. 50-CX300)	
		(CX450:AEP,UK,SP,MY,AUS)	
103	4-226-847-01	KNOB (AMS)	
104	4-226-846-01	KNOB (DISC)	
105	X-4952-642-1	BRACKET (CASE) ASSY	
106	4-985-553-21	CUSHION	
107	3-917-216-21	KNOB (TIMER)	
108	1-792-465-11	WIRE (FLAT TYPE) (15 CORE)	
109	A-4725-031-A	DISP BOARD, COMPLETE (CX450:US,CND)	

Ref. No.	Part No.	Description	Remark
109	A-4725-036-A	DISP BOARD, COMPLETE	
		(CX450:AEP,UK,SP,MY,AUS)	
109	A-4725-049-A	DISP BOARD, COMPLETE (CX400)	
110	4-951-620-01	SCREW (2.6X8), +BVTP	
111	1-676-832-11	KEY BOARD	
112	A-4725-030-A	JOG BOARD, COMPLETE (CX450:US,CND)	
112	A-4725-035-A	JOG BOARD, COMPLETE	
		(CX450:AEP,UK,SP,MY,AUS)	
112	A-4725-048-A	JOG BOARD, COMPLETE (CX400)	
114	4-215-969-01	HOLDER (LED.RM) (CX450)	
* 115	4-929-709-31	GUIDE (FL TUBE)	
FL701	1-517-959-11	INDICATOR TUBE, FLUORESCENT	
FL702	1-517-960-11	INDICATOR TUBE, FLUORESCENT	

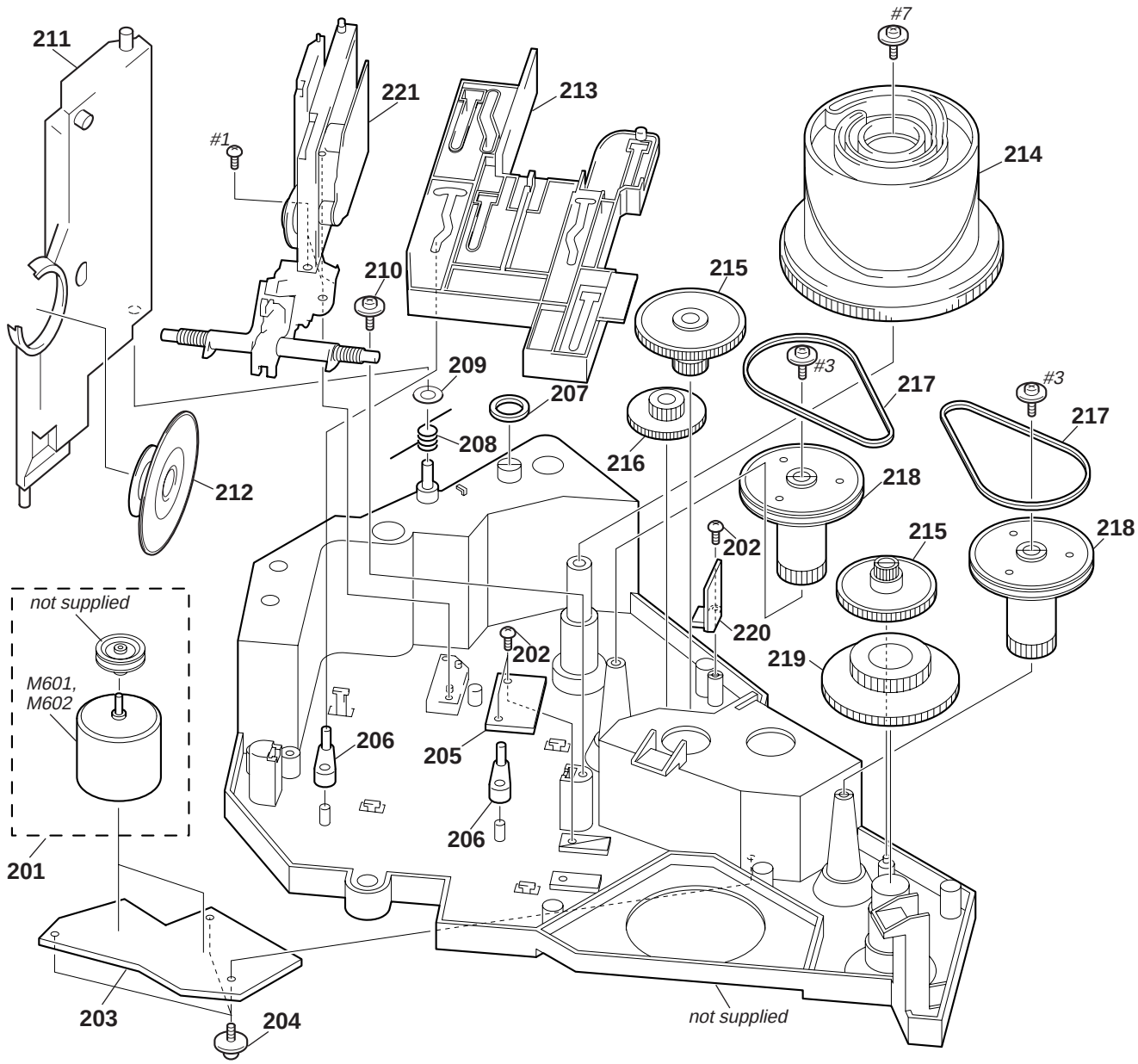
8-4. MECHANISM SECTION 1 (CDM62-K1BD35A)



Ref. No.	Part No.	Description	Remark
151	4-226-827-01	BASE (DOOR DRIVING)	
152	4-216-093-01	ROLLER	
153	4-216-100-01	HOLDER (POP-UP)	
154	4-933-134-11	SCREW (+PTPWH M2.6X8)	
155	4-226-832-01	LEVER (PU JOINT)	
156	4-216-099-01	SLIDER (POP-UP)	
157	4-216-103-01	SPRING (POP-UP), COMPRESSION	
158	4-998-716-01	SCREW, BU FITTING	
159	4-216-102-01	SHAFT (POP-UP FULCRUM)	
160	4-228-352-01	LEVER (POP-UP 400)	

Ref. No.	Part No.	Description	Remark
161	4-216-104-01	SPRING (POP-UP), TENSION	
162	4-219-326-01	BELT (DIA. 42X1.2)	
163	3-701-441-21	WASHER	
164	4-226-828-01	GEAR (CAM)	
165	4-226-829-01	GEAR (PULLEY)	
166	4-226-831-01	GEAR (B)	
167	4-226-830-01	GEAR (A)	
168	1-676-838-11	DOOR SW BOARD	
169	1-676-839-11	D.MOTOR BOARD	
170	4-951-620-01	SCREW (2.6X8), +BVTP	
M603	1-541-632-11	MOTOR, DC (DOOR)	

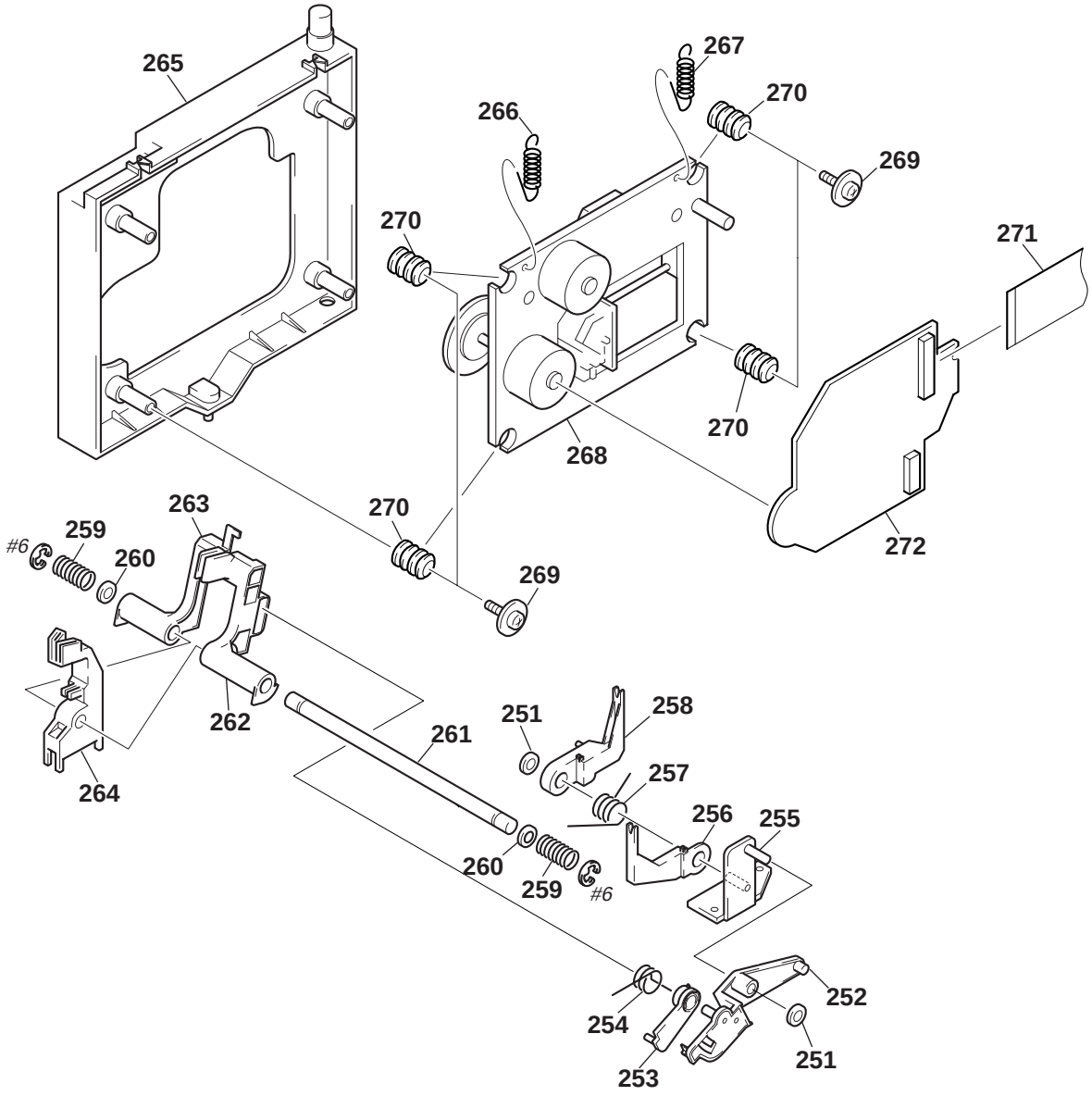
8-5. MECHANISM SECTION 2 (CDM62-K1BD35A)



Ref. No.	Part No.	Description	Remark
201	A-4672-895-A	MOTOR (400) ASSY	
202	4-951-620-01	SCREW (2.6X8), +BVTP	
203	1-676-837-11	L.T.MOTOR BOARD	
204	4-933-134-11	SCREW (+PTPWH M2.6X8)	
205	1-676-835-11	LOCK SW BOARD	
206	X-4952-503-1	LEVER (FULCRUM 400) ASSY	
207	3-701-446-21	WASHER, 8	
208	4-216-081-01	SPRING (MG), TORSION	
209	3-701-441-21	WASHER	
210	4-998-716-01	SCREW, BU FITTING	
211	4-216-082-01	HOLDER (MAGNET), TORSION	
212	A-4672-768-A	MAGNET ASSY	

Ref. No.	Part No.	Description	Remark
213	4-225-865-01	SLIDER (400)	
214	A-4672-676-B	CAMASSY	
215	4-216-058-01	GEAR (CENTER)	
216	4-216-057-01	GEAR (CENTER 2)	
217	4-225-876-01	BELT (400)	
218	4-225-870-01	PULLEY (400)	
219	4-225-869-01	GEAR (TABLE 400)	
220	1-676-836-11	LOADING SW BOARD	
221	X-4950-901-5	HOLDER ASSY, BU	
M601	1-541-309-11	MOTOR, L (RF-370C)(TABLE)	
M602	1-541-309-11	MOTOR, L (RF-370C)(LOADING)	

8-6. MECHANISM SECTION 3 (CDM62-K1BD35A)



Ref. No.	Part No.	Description	Remark
251	3-325-697-21	WASHER	
252	4-216-078-01	LEVER (LOADING)	
253	4-216-079-02	LIMITTER (LEVER)	
254	4-216-080-01	SPRING (LIMITTER), TORSION	
255	X-4950-900-1	BRACKET (LEVER) ASSY	
256	4-225-871-01	HOLDER (F400)	
257	4-216-077-01	SPRING (HOLDER FR), TORSION	
258	4-216-076-01	HOLDER (R)	
259	4-216-067-01	SPRING (CLAMP), COMPRESSION	
260	3-701-441-21	WASHER	
261	4-225-868-01	SHAFT (CLAMP 400)	
262	X-4952-502-1	HOLDER (DISC R400) ASSY	
263	X-4952-501-1	HOLDER (DISC L400) ASSY	
264	X-4952-499-1	LEVER (LOCK 400) ASSY	
265	X-4950-901-5	HOLDER ASSY, BU	
266	4-216-085-01	SPRING (F-1), TENSION	
267	4-216-086-01	SPRING (F-2), TENSION	
⚠268	8-820-026-03	OPTICAL PICK-UP BLOCK KSM-213BFN	
269	4-957-577-01	SCREW PTP WH (2.6X8) (DIA. 10)	
* 270	4-992-054-01	RUBBER, VIBRATION PROOF	
271	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
* 272	A-4724-761-A	BD BOARD, COMPLETE	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 9
ELECTRICAL PARTS LIST

BD

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: µ , for example:
  uA...: µ A..., uPA...: µ PA..., uPB...: µ PB...,
  uPC...: µ PC..., uPD...: µ PD...
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  CND : Canadian model
  AUS : Australian model
  SP : Singapore model.
  MY : Malaysia model.

Ref. No.	Part No.	Description			Remark
*	A-4724-761-A	BD BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C104	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-163-035-00	CERAMIC CHIP	0.047uF	50V	
C109	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C114	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C118	1-163-275-11	CERAMIC CHIP	0.001uF	5.00%	50V
C119	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C120	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-135-214-21	TANTAL. CHIP	4.7uF	20.00%	10V
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V
C124	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C125	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-109-982-11	CERAMIC CHIP	1uF	10.00%	10V
C130	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C131	1-135-216-11	TANTALUM CHIP	10uF	20%	10V
C140	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C151	1-163-237-11	CERAMIC CHIP	27PF	5.00%	50V
C153	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C154	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C156	1-163-237-11	CERAMIC CHIP	27PF	5.00%	50V
C157	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V

Ref. No.	Part No.	Description			Remark
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C161	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C162	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C163	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C164	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C165	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C166	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C167	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C168	1-163-237-11	CERAMIC CHIP	27PF	5.00%	50V
C171	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C172	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C181	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C182	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
		<CONNECTOR>			
CN101	1-770-072-11	CONNECTOR,(LIF(NON-ZIF))FFC23P			
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P			
		<IC>			
IC101	8-752-386-85	IC CXD2587Q			
IC102	8-759-455-91	IC BA6392FP-E2			
IC103	8-752-085-51	IC CXA2568M-T6			
		<COIL>			
L101	1-414-234-22	INDUCTOR CHIP	0uH		
L102	1-414-234-22	INDUCTOR CHIP	0uH		
		<TRANSISTOR>			
Q101	8-729-010-08	TRANSISTOR	MSB710-RT1		
		<RESISTOR>			
R101	1-216-077-91	RES-CHIP	15K	5%	1/10W
R102	1-216-097-91	RES-CHIP	100K	5%	1/10W
R103	1-216-077-91	RES-CHIP	15K	5%	1/10W
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R105	1-216-097-91	RES-CHIP	100K	5%	1/10W
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R107	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-121-91	RES-CHIP	1M	5%	1/10W
R110	1-216-025-91	RES-CHIP	100	5%	1/10W

BD **DISP**

Ref. No.	Part No.	Description			Remarks
R111	1-216-121-91	RES-CHIP	1M	5%	1/10W
R113	1-216-121-91	RES-CHIP	1M	5%	1/10W
R116	1-216-025-91	RES-CHIP	100	5%	1/10W
R117	1-216-049-91	RES-CHIP	1K	5%	1/10W
R119	1-216-043-91	RES-CHIP	560	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-097-91	RES-CHIP	100K	5%	1/10W
R131	1-216-037-00	METAL CHIP	330	5%	1/10W
R135	1-216-295-91	SHORT	0		
R136	1-216-295-91	SHORT	0		
R137	1-216-295-91	SHORT	0		
R138	1-216-295-91	SHORT	0		
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W
R147	1-216-081-00	METAL CHIP	22K	5%	1/10W
R148	1-216-001-00	METAL CHIP	10	5%	1/10W
R149	1-216-003-11	RES-CHIP	12	5%	1/10W
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W
R171	1-216-077-91	RES-CHIP	15K	5%	1/10W
R172	1-216-077-91	RES-CHIP	15K	5%	1/10W
R173	1-216-077-91	RES-CHIP	15K	5%	1/10W
R181	1-216-077-91	RES-CHIP	15K	5%	1/10W
R182	1-216-077-91	RES-CHIP	15K	5%	1/10W
R183	1-216-077-91	RES-CHIP	15K	5%	1/10W
R618	1-216-049-91	RES-CHIP	1K	5%	1/10W
		<SWITCH>			
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN SW)			
		<VIBRATOR>			
X101	1-767-408-21	VIBRATOR, CRYSTAL 16.9344MHz			
**********					
	A-4725-049-A	DISP BOARD, COMPLETE (CX400)			
		**********			
	A-4725-031-A	DISP BOARD, COMPLETE (CX450:US,CND)			
		**********			
	A-4725-036-A	DISP BOARD, COMPLETE			
		**********			
		(CX450:AEP,UK,SP,MY,AUS)			
	4-982-811-21	HOLDER(FL)			
		< CAPACITOR >			
C591	1-126-924-11	ELECT	330uF	20.00%	6.3V (CX450)
C592	1-162-306-11	CERAMIC	0.01uF	20.00%	16V (CX450)
C593	1-126-924-11	ELECT	330uF	20.00%	6.3V (CX450)
C594	1-162-306-11	CERAMIC	0.01uF	20.00%	16V (CX450)
C595	1-126-924-11	ELECT	330uF	20.00%	6.3V (CX450)

Ref. No.	Part No.	Description			Remarks
C596	1-162-306-11	CERAMIC	0.01uF	20.00%	16V (CX450)
C781	1-104-665-11	ELECT	100uF	20.00%	10V
C782	1-104-665-11	ELECT	100uF	20.00%	10V
C784	1-162-282-31	CERAMIC	100PF	10%	50V
C785	1-162-282-31	CERAMIC	100PF	10%	50V
C786	1-162-282-31	CERAMIC	100PF	10%	50V
C787	1-162-306-11	CERAMIC	0.01uF	20.00%	16V
C788	1-162-215-31	CERAMIC	47PF	5%	50V
C789	1-164-159-11	CERAMIC	0.1uF		50V
C791	1-162-288-31	CERAMIC	330PF	10%	50V
C792	1-162-294-31	CERAMIC	0.001uF	10%	50V
C793	1-164-159-11	CERAMIC	0.1uF		50V (CX450:AEP,UK,SP,MY,AUS)
		< CONNECTOR >			
CNP502	1-784-776-11	CONNECTOR, FFC 15P			
		< DIODE >			
D591	8-719-059-14	DIODE SID313BP-TP19			(CX450)
D592	8-719-059-14	DIODE SID313BP-TP19			(CX450)
D593	8-719-911-19	DIODE 1SS133T-72			(CX450)
D594	8-719-059-14	DIODE SID313BP-TP19			(CX450)
D595	8-719-911-19	DIODE 1SS133T-72			(CX450)
D596	8-719-059-14	DIODE SID313BP-TP19			(CX450)
D597	8-719-059-14	DIODE SID313BP-TP19			(CX450)
D598	8-719-911-19	DIODE 1SS133T-72			(CX450)
D701	8-719-046-39	DIODE SEL5821A-TP15			
D702	8-719-046-39	DIODE SEL5821A-TP15			
D703	8-719-046-39	DIODE SEL5821A-TP15			
D704	8-719-046-39	DIODE SEL5821A-TP15			
D705	8-719-046-39	DIODE SEL5821A-TP15			
D706	8-719-046-39	DIODE SEL5821A-TP15			
D707	8-719-046-39	DIODE SEL5821A-TP15			
D708	8-719-046-39	DIODE SEL5821A-TP15			
D709	8-719-046-39	DIODE SEL5821A-TP15			
D710	8-719-046-44	DIODE SEL5221S-TP15			
		< FILTER >			
FL701	1-517-959-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC701	8-759-498-92	IC MSM9202-03GS-K			
IC702	8-759-183-47	IC M66310FP			
IC703	8-759-459-86	IC NJL64H400A			
		< TRANSISTOR >			
Q591	8-729-801-93	TRANSISTOR 2SD1387-34-TP (CX450)			
Q592	8-729-801-93	TRANSISTOR 2SD1387-34-TP (CX450)			
Q593	8-729-801-93	TRANSISTOR 2SD1387-34-TP (CX450)			
Q701	8-729-900-80	TRANSISTOR BA1A4M-TP			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R591	1-249-383-11	CARBON	1.5	5%	1/6W F (CX450)
R592	1-249-383-11	CARBON	1.5	5%	1/6W F (CX450)
R593	1-247-772-00	CARBON	3.6	5%	1/4W (CX450)
R594	1-247-772-00	CARBON	3.6	5%	1/4W (CX450)
R595	1-249-383-11	CARBON	1.5	5%	1/6W F (CX450)
R596	1-249-383-11	CARBON	1.5	5%	1/6W F (CX450)
R742	1-249-415-11	CARBON	680	5%	1/4W F
R743	1-249-417-11	CARBON	1K	5%	1/4W F
R744	1-249-419-11	CARBON	1.5K	5%	1/4W F
R745	1-249-421-11	CARBON	2.2K	5%	1/4W F
R752	1-249-415-11	CARBON	680	5%	1/4W F
R753	1-249-417-11	CARBON	1K	5%	1/4W F
R754	1-249-419-11	CARBON	1.5K	5%	1/4W F
R755	1-249-421-11	CARBON	2.2K	5%	1/4W F
R762	1-249-415-11	CARBON	680	5%	1/4W F
R763	1-249-417-11	CARBON	1K	5%	1/4W F
R764	1-249-419-11	CARBON	1.5K	5%	1/4W F
R765	1-249-421-11	CARBON	2.2K	5%	1/4W F
R766	1-247-843-11	CARBON	3.3K	5%	1/4W
R767	1-249-427-11	CARBON	6.8K	5%	1/4W F
R768	1-249-431-11	CARBON	15K	5%	1/4W
R781	1-247-807-31	CARBON	100	5%	1/4W
R782	1-247-807-31	CARBON	100	5%	1/4W
R783	1-247-807-31	CARBON	100	5%	1/4W
R784	1-247-807-31	CARBON	100	5%	1/4W
R785	1-247-807-31	CARBON	100	5%	1/4W
R786	1-247-843-11	CARBON	3.3K	5%	1/4W
R787	1-249-441-11	CARBON	100K	5%	1/4W
R788	1-247-807-31	CARBON	100	5%	1/4W
R789	1-247-807-31	CARBON	100	5%	1/4W
R790	1-249-409-11	CARBON	220	5%	1/4W F
R791	1-249-409-11	CARBON	220	5%	1/4W F
R792	1-249-409-11	CARBON	220	5%	1/4W F
R793	1-249-413-11	CARBON	470	5%	1/4W F
		< SWITCH >			
S741	1-771-349-21	SWITCH, KEYBOARD (GROUP 1)			
S742	1-771-349-21	SWITCH, KEYBOARD (GROUP 2)			
S743	1-771-349-21	SWITCH, KEYBOARD (GROUP 3)			
S744	1-771-349-21	SWITCH, KEYBOARD (GROUP 4)			
S745	1-771-349-21	SWITCH, KEYBOARD (HIT LIST)			
S751	1-771-349-21	SWITCH, KEYBOARD (GROUP 5)			
S752	1-771-349-21	SWITCH, KEYBOARD (GROUP 6)			
S753	1-771-349-21	SWITCH, KEYBOARD (GROUP 7)			
S754	1-771-349-21	SWITCH, KEYBOARD (GROUP 8)			
S755	1-771-349-21	SWITCH, KEYBOARD (GROUP FILE)			
S761	1-771-349-21	SWITCH, KEYBOARD (SCROL)			
S762	1-771-349-21	SWITCH, KEYBOARD (REPEAT)			
S763	1-771-349-21	SWITCH, KEYBOARD (PROGRAM)			
S764	1-771-349-21	SWITCH, KEYBOARD (SHUFFLE)			
S765	1-771-349-21	SWITCH, KEYBOARD (CONTINUE)			
S766	1-771-349-21	SWITCH, KEYBOARD (STANDBY)			
S768	1-570-157-51	SWITCH, SLIDE (TIMER)			

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	1-676-838-11	DOOR SW BOARD			
		**********			
		< RESISTOR >			
R612	1-249-415-11	CARBON	680	5%	1/4W F
R613	1-249-417-11	CARBON	1K	5%	1/4W F
R614	1-249-419-11	CARBON	1.5K	5%	1/4W F
		< SWITCH >			
S611	1-571-300-21	SWITCH, ROTARY (DOOR)			
S612	1-571-300-21	SWITCH, ROTARY (POP UP)			

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	1-676-839-11	D.MOTOR BOARD			
		**********			
		< MOTOR >			
M603	1-541-632-11	MOTOR, DC (DOOR)			

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	1-676-833-11	D.SENS(IN) BOARD			
		**********			
*	4-985-300-01	HOLDER (P-T)			
		< TRANSISTOR >			
Q81	8-729-926-31	PHOTO TRANISTOR PT483F1			

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	1-676-834-11	D.SENS(OUT) BOARD			
		**********			
		< DIODE >			
D81	8-719-055-84	DIODE GL528VS1			

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	A-4725-048-A	JOG BOARD, COMPLETE (CX400)			
		**********			
	A-4725-030-A	JOG BOARD, COMPLETE (CX450:US,CND)			
		**********			
	A-4725-035-A	JOG BOARD, COMPLETE			
		**********			
					(CX450:AEP,UK,SP,MY,AUS)
*	4-929-709-31	GUIDE(FL TUBE)			
		< CAPACITOR >			
C701	1-161-494-00	CERAMIC	0.022uF	25V	
C711	1-161-494-00	CERAMIC	0.022uF	25V	
C721	1-161-494-00	CERAMIC	0.022uF	25V	
C731	1-161-494-00	CERAMIC	0.022uF	25V	
C741	1-161-494-00	CERAMIC	0.022uF	25V	

JOG KEY

Ref. No.	Part No.	Description			Remarks
C751	1-161-494-00	CERAMIC	0.022uF	25V	
C773	1-164-159-11	CERAMIC	0.1uF		50V
C774	1-124-584-00	ELECT	100uF	20%	10V
C775	1-162-207-31	CERAMIC	22PF	5%	50V
C776	1-164-159-11	CERAMIC	0.1uF		50V
C777	1-162-282-31	CERAMIC	100PF	10%	50V
C778	1-164-159-11	CERAMIC	0.1uF		50V
C779	1-164-159-11	CERAMIC	0.1uF		50V
			(CX450:AEP,UK,SP,MY,AUS)		
		< DIODE >			
D711	8-719-046-41	DIODE SEL5521C-TP15			
D712	8-719-046-39	DIODE SEL5821A-TP15			
D715	8-719-046-41	DIODE SEL5521C-TP15			
		< FILTER >			
FL702	1-517-960-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC704	8-759-547-59	IC M35500BGP			
		< RESISTOR >			
R701	1-249-427-11	CARBON	6.8K	5%	1/4W F
R702	1-249-415-11	CARBON	680	5%	1/4W F
R703	1-249-417-11	CARBON	1K	5%	1/4W F
R704	1-249-419-11	CARBON	1.5K	5%	1/4W F
R705	1-249-421-11	CARBON	2.2K	5%	1/4W F
R706	1-247-843-11	CARBON	3.3K	5%	1/4W
R707	1-249-427-11	CARBON	6.8K	5%	1/4W F
R711	1-249-427-11	CARBON	6.8K	5%	1/4W F
R712	1-249-415-11	CARBON	680	5%	1/4W F
R713	1-249-417-11	CARBON	1K	5%	1/4W F
R714	1-249-419-11	CARBON	1.5K	5%	1/4W F
R721	1-249-427-11	CARBON	6.8K	5%	1/4W F
R722	1-249-415-11	CARBON	680	5%	1/4W F
R723	1-249-417-11	CARBON	1K	5%	1/4W F
R724	1-249-419-11	CARBON	1.5K	5%	1/4W F
R725	1-249-421-11	CARBON	2.2K	5%	1/4W F
R726	1-247-843-11	CARBON	3.3K	5%	1/4W
R727	1-249-427-11	CARBON	6.8K	5%	1/4W F
R731	1-249-427-11	CARBON	6.8K	5%	1/4W F
R741	1-249-427-11	CARBON	6.8K	5%	1/4W F
R751	1-249-427-11	CARBON	6.8K	5%	1/4W F
R771	1-247-807-31	CARBON	100	5%	1/4W
R772	1-249-407-11	CARBON	150	5%	1/4W F
R773	1-249-407-11	CARBON	150	5%	1/4W F
R774	1-247-807-31	CARBON	100	5%	1/4W
R775	1-247-807-31	CARBON	100	5%	1/4W
R794	1-247-807-31	CARBON	100	5%	1/4W
		< ENCODER >			
RE701	1-475-543-11	ENCODER, ROTARY (DISC/CHARACTER)			
RE702	1-475-543-11	ENCODER, ROTARY (AMS)			

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S701	1-771-349-21	SWITCH, KEYBOARD (OPEN/CLOSE)			
S702	1-771-349-21	SWITCH, KEYBOARD (EJECT)			
S703	1-771-349-21	SWITCH, KEYBOARD (EASY PLAY)			
S704	1-771-349-21	SWITCH, KEYBOARD (MENU/NO)			
S705	1-771-349-21	SWITCH, KEYBOARD (+100)			
S706	1-771-349-21	SWITCH, KEYBOARD (YES)			
S711	1-771-349-21	SWITCH, KEYBOARD (CHECK)			
S712	1-771-349-21	SWITCH, KEYBOARD (CLEAR)			
S713	1-771-349-21	SWITCH, KEYBOARD (NAME)			
S714	1-692-537-21	SWITCH, TACTILE (WITH LIGHT)(ARTIST MODE)			
S721	1-692-537-11	SWITCH, TACTILE (WITH LIGHT)(MEGA CONTROL)			
S722	1-771-349-21	SWITCH, KEYBOARD (NO DELAY)			
S723	1-771-349-21	SWITCH, KEYBOARD (X-FADE)			
S724	1-771-349-21	SWITCH, KEYBOARD (FADER)			
S725	1-771-349-21	SWITCH, KEYBOARD (PAUSE)			
S726	1-771-349-21	SWITCH, KEYBOARD (STOP)			
S767	1-771-349-21	SWITCH, KEYBOARD (PLAY)			
**********					
	1-676-832-11	KEY BOARD *********			
		< CAPACITOR >			
C821	1-164-159-11	CERAMIC	0.1uF		50V
C822	1-164-159-11	CERAMIC	0.1uF		50V
C823	1-126-925-11	ELECT	470uF	20.00%	10V
		< CONNECTOR >			
* CNP503	1-568-947-11	PIN, CONNECTOR 9P (CX450)			
* CNP503	1-568-944-11	PIN, CONNECTOR 6P (CX400)			
* CNP703	1-568-954-11	PIN, CONNECTOR 5P (CX450)			
		< DIODE >			
D821	8-719-109-85	DIODE RD5.1ES-T2B2			
D822	8-719-109-85	DIODE RD5.1ES-T2B2			
D823	8-719-109-85	DIODE RD5.1ES-T2B2			
		< JACK >			
J821	1-785-945-11	CONNECTOR, DIN (KEYBOARD)			
		< COIL >			
L821	1-424-122-11	FILTER, NOISE			
L822	1-424-122-11	FILTER, NOISE			
L823	1-424-122-11	FILTER, NOISE			
L824	1-424-122-11	FILTER, NOISE			
		< RESISTOR >			
R1	1-249-429-11	CARBON	10K	5%	1/4W (CX400)
**********					

Ref. No.	Part No.	Description				Remarks
	1-676-840-11	LED BOARD				
		*********				
*	4-976-473-01	HOLDER (LED-S)				
		< CAPACITOR >				
C801	1-164-159-11	CERAMIC	0.1uF			50V
		< CONNECTOR >				
CNP504	1-506-481-11	PIN, CONNECTOR 2P				
		< DIODE >				
D801	8-719-072-81	DIODE SELU5E23C-STP15				
		< RESISTOR >				
R801	1-249-401-11	CARBON	47	5%	1/4W	F
**********						
	1-676-836-11	LOADING SW BOARD				
		**********				
R622	1-249-415-11	CARBON	680	5%	1/4W	F
R623	1-249-417-11	CARBON	1K	5%	1/4W	F
		< SWITCH >				
S621	1-571-300-21	SWITCH, ROTARY (LOADING)				
**********						
	1-676-835-11	LOCK SW BOARD				
		**********				
S622	1-771-604-11	SWITCH, DETECTION (LOCK)				
**********						
	1-676-837-11	L.T.MOTOR BOARD				
		**********				
		< MOTOR >				
M601	A-4672-895-A	MOTOR (400) ASSY (TABLE)				
M602	A-4672-895-A	MOTOR (400) ASSY (LOADING)				
**********						
	A-4725-053-A	MAIN BOARD, COMPLETE (CX400)				
		**********				
	A-4725-033-A	MAIN BOARD, COMPLETE (CX450:US,CND)				
		**********				
	A-4725-038-A	MAIN BOARD, COMPLETE				
		**********				
						(CX450:AEP,UK,SP,MY,AUS)
*	4-363-146-21	HEATSINK, V.OUT (CX450)				
	7-685-871-01	SCREW+BVTT	3X6 (S)			
		< CAPACITOR >				
C301	1-126-965-11	ELECT	22uF	20.00%	50V	
C304	1-126-965-11	ELECT	22uF	20.00%	50V	
C305	1-104-664-11	ELECT	47uF	20.00%	10V	
C307	1-126-960-11	ELECT	1uF	20.00%	50V	
C310	1-164-159-11	CERAMIC	0.1uF		50V	

Ref. No.	Part No.	Description				Remarks
C321	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C327	1-124-282-00	ELECT	22uF	20.00%	25V	
C328	1-162-290-31	CERAMIC	470PF	10%	50V	
C329	1-126-962-11	ELECT	3.3uF	20.00%	50V	
C401	1-126-965-11	ELECT	22uF	20.00%	50V	
C404	1-126-965-11	ELECT	22uF	20.00%	50V	
C405	1-104-664-11	ELECT	47uF	20.00%	10V	
C407	1-126-960-11	ELECT	1uF	20.00%	50V	
C410	1-164-159-11	CERAMIC	0.1uF		50V	
C427	1-124-282-00	ELECT	22uF	20.00%	25V	
C428	1-162-290-31	CERAMIC	470PF	10%	50V	
C503	1-161-494-00	CERAMIC	0.022uF	25V		
C504	1-104-665-11	ELECT	100uF	20.00%	10V	
C505	1-161-494-00	CERAMIC	0.022uF	25V		
C509	1-161-494-00	CERAMIC	0.022uF	25V		
C512	1-161-494-00	CERAMIC	0.022uF	25V		
C513	1-161-494-00	CERAMIC	0.022uF	25V		
C514	1-164-159-11	CERAMIC	0.1uF		50V	
C516	1-164-159-11	CERAMIC	0.1uF		50V	
C517	1-164-159-11	CERAMIC	0.1uF		50V	
C518	1-164-159-11	CERAMIC	0.1uF		50V	
C519	1-104-665-11	ELECT	100uF	20.00%	10V	
C520	1-110-489-11	CAPACITOR	1F		5.5V	
C521	1-164-159-11	CERAMIC	0.1uF		50V	
C533	1-164-159-11	CERAMIC	0.1uF		50V	
C535	1-104-665-11	ELECT	100uF	20.00%	10V	
C572	1-104-665-11	ELECT	100uF	20.00%	10V	
C581	1-164-159-11	CERAMIC	0.1uF		50V	(CX450)
C582	1-104-665-11	ELECT	100uF	20.00%	10V	(CX450)
C591	1-126-382-11	ELECT	100uF	20.00%	10V	
C592	1-104-665-11	ELECT	100uF	20.00%	10V	
C594	1-126-382-11	ELECT	100uF	20.00%	10V	
C801	1-131-341-00	TANTALUM	0.1uF	10%	35V	(CX450)
C802	1-131-341-00	TANTALUM	0.1uF	10%	35V	(CX450)
C803	1-131-341-00	TANTALUM	0.1uF	10%	35V	(CX450)
C804	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V	(CX450)
C805	1-164-159-11	CERAMIC	0.1uF		50V	(CX450)
C806	1-104-665-11	ELECT	100uF	20.00%	10V	(CX450)
C807	1-162-215-31	CERAMIC	47PF	5%	50V	(CX450)
C811	1-104-665-11	ELECT	100uF	20.00%	10V	(CX450)
C812	1-164-159-11	CERAMIC	0.1uF		50V	(CX450)
C814	1-162-205-31	CERAMIC	18PF	5%	50V	(CX450:AEP,UK,SP,MY,AUS)
C814	1-162-209-31	CERAMIC	27PF	5.00%	50V	(CX450:US,CND)
C815	1-164-159-11	CERAMIC	0.1uF		50V	(CX450)
C817	1-126-926-11	ELECT	1000uF	20.00%	10V	(CX450)

MAIN

Ref. No.	Part No.	Description			Remarks
C818	1-104-665-11	ELECT	100uF	20.00%	10V (CX450)
C819	1-164-159-11	CERAMIC	0.1uF		50V (CX450)
C820	1-164-159-11	CERAMIC	0.1uF		50V (CX450)
C822	1-162-294-31	CERAMIC	0.001uF	10%	50V (CX450)
C823	1-164-159-11	CERAMIC	0.1uF		50V (CX450)
C824	1-104-665-11	ELECT	100uF	20.00%	10V (CX450)
C825	1-164-159-11	CERAMIC	0.1uF		50V (CX450)
C827	1-136-177-00	MYLAR	1uF	5.00%	50V (CX450)
C828	1-102-959-91	CERAMIC	22PF	5.00%	50V (CX450:AEP,UK,SP,MY,AUS)
C828	1-102-965-00	CERAMIC	39PF	5%	50V (CX450:US,CND)
C829	1-141-318-11	CAP, TRIMMER	20PF		(CX450:US,CND)
C830	1-102-947-00	CERAMIC	10PF	5%	50V (CX450:AEP,UK,SP,MY,AUS)
C830	1-102-961-00	CERAMIC	27PF	5%	50V (CX450:US,CND)
C831	1-104-665-11	ELECT	100uF	20.00%	10V (CX450)
C832	1-164-159-11	CERAMIC	0.1uF		50V (CX450)
C833	1-104-665-11	ELECT	100uF	20.00%	10V (CX450)
C861	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V (CX450:AEP,UK,SP,MY,AUS)
C862	1-141-354-21	CAP, TRIMMER	10PF		(CX450:AEP,UK,SP,MY,AUS)
C863	1-162-294-31	CERAMIC	0.001uF	10%	50V (CX450:AEP,UK,SP,MY,AUS)
C864	1-164-159-11	CERAMIC	0.1uF		50V (CX450:AEP,UK,SP,MY,AUS)
C865	1-131-348-00	TANTALUM	1.5uF	10%	35V (CX450:AEP,UK,SP,MY,AUS)
C866	1-102-958-00	CERAMIC	20PF	5.00%	50V (CX450:AEP,UK,SP,MY,AUS)
C913	1-126-767-11	ELECT	1000uF	20.00%	16V
C914	1-126-767-11	ELECT	1000uF	20.00%	16V
C915	1-126-933-11	ELECT	100uF	20.00%	16V
C917	1-126-925-11	ELECT	470uF	20.00%	10V
C923	1-126-767-11	ELECT	1000uF	20.00%	16V
C925	1-126-933-11	ELECT	100uF	20.00%	16V
C927	1-126-925-11	ELECT	470uF	20.00%	10V
C928	1-126-925-11	ELECT	470uF	20.00%	10V
C933	1-126-933-11	ELECT	100uF	20.00%	16V
C934	1-126-933-11	ELECT	100uF	20.00%	16V
C935	1-104-665-11	ELECT	100uF	20.00%	10V
C936	1-126-962-11	ELECT	3.3uF	20.00%	50V
C938	1-126-925-11	ELECT	470uF	20.00%	10V
C941	1-126-935-11	ELECT	470uF	20.00%	16V
C942	1-126-935-11	ELECT	470uF	20.00%	16V
C943	1-126-948-11	ELECT	100uF	20.00%	35V
C944	1-126-948-11	ELECT	100uF	20.00%	35V
C945	1-104-665-11	ELECT	100uF	20.00%	10V
C951	1-164-159-11	CERAMIC	0.1uF		50V
C952	1-164-159-11	CERAMIC	0.1uF		50V
C953	1-104-664-11	ELECT	47uF	20.00%	16V
C954	1-164-159-11	CERAMIC	0.1uF		50V
C980	1-126-925-11	ELECT	470uF	20.00%	10V (CX450)

< CONNECTOR >

* CN501	1-568-839-11	SOCKET, CONNECTOR 23P	
CN502	1-784-737-11	CONNECTOR, FFC 15P	
* CN503	1-568-944-11	PIN, CONNECTOR 6P (CX400)	
CN503	1-568-947-41	PIN, CONNECTOR 9P (CX450)	
* CN505	1-568-947-11	PIN, CONNECTOR 9P	
* CN506	1-568-943-11	PIN, CONNECTOR 5P	
* CN801	1-506-486-11	PIN, CONNECTOR 7P	
* CN901	1-564-524-11	PLUG, CONNECTOR 9P	
* CN903	1-568-947-11	PIN, CONNECTOR 9P	

< DIODE >

D327	8-719-911-19	DIODE	1SS133T-72
D329	8-719-911-19	DIODE	1SS133T-72
D501	8-719-911-19	DIODE	1SS133T-72
D521	8-719-911-19	DIODE	1SS133T-72
D580	8-719-911-19	DIODE	1SS133T-72 (CX450)
D941	8-719-109-93	DIODE	RD6.2ES-T2B2
D942	8-719-110-53	DIODE	RD20ES-T2B2

< FILTER >

FL801	1-236-164-11	ENCAPSULATED COMPONENT (CX450)

< IC >

IC302	8-749-015-59	IC	BA4558-HT
IC401	8-749-015-59	IC	BA4558-HT
IC402	8-749-015-59	IC	BA4558-HT
IC501	8-759-655-10	IC	M30620MC-407FP (CX400)
IC501	8-759-688-16	IC	M30622MGA-309FP (CX450)
IC502	8-759-666-99	IC	TMP87C447U-1B23 (CX450)
IC503	8-759-267-86	IC	SN74HC00ANS (CX450)
IC504	8-759-641-01	IC	LC35256DM-70
IC507	8-759-925-74	IC	SN74HC04ANS
IC802	8-759-665-94	IC	MB90096PF-G-203-BND (CX450)
IC803	8-752-080-00	IC	CXA2075M (CX450)
IC804	8-752-326-08	IC	CXD1159Q (CX450)
IC805	8-759-933-65	IC	SN74LS244NS (CX450)
IC901	8-749-921-12	IC	GP1F32T
IC910	8-759-039-69	IC	uPC7805AHF
IC920	8-759-605-00	IC	TA7807S(LBSONY)
IC921	8-759-039-69	IC	uPC7805AHF
IC930	8-759-173-39	IC	NJU7201L50-T3
IC931	8-759-658-02	IC	BA3993F
IC980	8-759-039-69	IC	uPC7805AHF (CX450)

< JACK >

J801	1-774-227-11	JACK, PIN 1P (VIDEO)(CX450)	
* J901	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5) (CONTOROL	A1II)
* J902	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5)	
J903	1-794-012-11	JACK, PIN 4P (2ND CD/ANALOG)	

Ref. No.	Part No.	Description			Remarks
		< COIL >			
L501	1-410-396-41	INDUCTOR	0.45uH		
L801	1-408-613-31	INDUCTOR	68uH (CX450)		
L804	1-410-396-41	INDUCTOR	0.45uH (CX450)		
L807	1-410-396-41	INDUCTOR	0.45uH (CX450)		
L813	1-410-503-11	INDUCTOR	3.3uH (CX450)		
L921	1-410-396-41	INDUCTOR	0.45uH		
L950	1-410-503-11	INDUCTOR	3.3uH		
		< TRANSISTOR >			
Q322	8-729-141-26	TRANSISTOR	2SC3622ATP-LK		
Q323	8-729-141-26	TRANSISTOR	2SC3622ATP-LK		
Q324	8-729-141-26	TRANSISTOR	2SC3622ATP-LK		
Q325	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q327	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q328	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q329	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q422	8-729-141-26	TRANSISTOR	2SC3622ATP-LK		
Q423	8-729-141-26	TRANSISTOR	2SC3622ATP-LK		
Q424	8-729-141-26	TRANSISTOR	2SC3622ATP-LK		
Q425	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q521	8-729-030-08	TRANSISTOR	DTC144VSA-TP		
Q552	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q562	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q570	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q571	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q572	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q576	8-729-422-57	TRANSISTOR	BN1A4M-TP		
Q580	8-729-900-80	TRANSISTOR	BA1A4M-TP (CX450)		
Q581	8-729-620-05	TRANSISTOR	2SC2603TP-EF (CX450)		
Q861	8-729-194-57	TRANSISTOR	2SC945TP-QP (CX450:AEP,UK,SP,MY,AUS)		
Q941	8-729-140-97	TRANSISTOR	2SB734-T-34		
Q950	8-729-620-05	TRANSISTOR	2SC2603TP-EF		
		< RESISTOR >			
R301	1-215-453-00	METAL	22K	1%	1/4W
R302	1-215-425-00	METAL	1.5K	1%	1/4W
R303	1-215-425-00	METAL	1.5K	1%	1/4W
R304	1-215-445-00	METAL	10K	1%	1/4W
R305	1-215-443-00	METAL	8.2K	1%	1/4W
R306	1-215-485-00	METAL	470K	1%	1/4W
R307	1-215-445-00	METAL	10K	1%	1/4W
R309	1-215-417-00	METAL	680	1%	1/4W
R310	1-215-445-00	METAL	10K	1%	1/4W
R311	1-215-445-00	METAL	10K	1%	1/4W
R312	1-215-445-00	METAL	10K	1%	1/4W
R313	1-215-477-00	METAL	220K	1%	1/4W
R314	1-215-405-00	METAL	220	1%	1/4W
R315	1-215-405-00	METAL	220	1%	1/4W
R317	1-215-443-00	METAL	8.2K	1%	1/4W
R322	1-249-421-11	CARBON	2.2K	5%	1/4W F
R323	1-249-421-11	CARBON	2.2K	5%	1/4W F
R324	1-249-421-11	CARBON	2.2K	5%	1/4W F
R325	1-249-441-11	CARBON	100K	5%	1/4W
R326	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R327	1-249-441-11	CARBON	100K	5%	1/4W
R328	1-249-441-11	CARBON	100K	5%	1/4W
R329	1-249-441-11	CARBON	100K	5%	1/4W
R339	1-215-485-00	METAL	470K	1%	1/4W
R340	1-215-405-00	METAL	220	1%	1/4W
R401	1-215-453-00	METAL	22K	1%	1/4W
R402	1-215-425-00	METAL	1.5K	1%	1/4W
R403	1-215-425-00	METAL	1.5K	1%	1/4W
R404	1-215-445-00	METAL	10K	1%	1/4W
R405	1-215-443-00	METAL	8.2K	1%	1/4W
R406	1-215-485-00	METAL	470K	1%	1/4W
R407	1-215-445-00	METAL	10K	1%	1/4W
R409	1-215-417-00	METAL	680	1%	1/4W
R410	1-215-445-00	METAL	10K	1%	1/4W
R411	1-215-445-00	METAL	10K	1%	1/4W
R412	1-215-445-00	METAL	10K	1%	1/4W
R413	1-215-477-00	METAL	220K	1%	1/4W
R414	1-215-405-00	METAL	220	1%	1/4W
R415	1-215-405-00	METAL	220	1%	1/4W
R417	1-215-443-00	METAL	8.2K	1%	1/4W
R422	1-249-421-11	CARBON	2.2K	5%	1/4W F
R423	1-249-421-11	CARBON	2.2K	5%	1/4W F
R424	1-249-421-11	CARBON	2.2K	5%	1/4W F
R425	1-249-441-11	CARBON	100K	5%	1/4W
R426	1-247-807-31	CARBON	100	5%	1/4W
R439	1-215-485-00	METAL	470K	1%	1/4W
R440	1-215-405-00	METAL	220	1%	1/4W
R503	1-249-441-11	CARBON	100K	5%	1/4W
R504	1-249-429-11	CARBON	10K	5%	1/4W
R508	1-249-427-11	CARBON	6.8K	5%	1/4W F
R509	1-249-427-11	CARBON	6.8K	5%	1/4W F
R510	1-247-807-31	CARBON	100	5%	1/4W
R511	1-249-427-11	CARBON	6.8K	5%	1/4W F
R512	1-249-429-11	CARBON	10K	5%	1/4W
R513	1-249-429-11	CARBON	10K	5%	1/4W
R514	1-249-427-11	CARBON	6.8K	5%	1/4W F
R515	1-249-415-11	CARBON	680	5%	1/4W F
R517	1-249-427-11	CARBON	6.8K	5%	1/4W F
R518	1-249-437-11	CARBON	47K	5%	1/4W
R519	1-249-427-11	CARBON	6.8K	5%	1/4W F
R520	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-249-403-11	CARBON	68	5%	1/4W F
R523	1-249-403-11	CARBON	68	5%	1/4W F
R524	1-249-429-11	CARBON	10K	5%	1/4W
R525	1-249-429-11	CARBON	10K	5%	1/4W
R526	1-249-429-11	CARBON	10K	5%	1/4W
R527	1-249-429-11	CARBON	10K	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W
R529	1-249-429-11	CARBON	10K	5%	1/4W
R530	1-249-429-11	CARBON	10K	5%	1/4W
R531	1-249-429-11	CARBON	10K	5%	1/4W
R532	1-249-417-11	CARBON	1K	5%	1/4W F
R533	1-249-417-11	CARBON	1K	5%	1/4W F
R534	1-249-429-11	CARBON	10K	5%	1/4W

MAIN **TRANS**

Ref. No.	Part No.	Description			Remarks
R535	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-425-11	CARBON	4.7K	5%	1/4W F
R571	1-249-425-11	CARBON	4.7K	5%	1/4W F
R580	1-249-429-11	CARBON	10K	5%	1/4W (CX450)
R582	1-249-429-11	CARBON	10K	5%	1/4W (CX450)
R583	1-249-425-11	CARBON	4.7K	5%	1/4W F (CX450)
R584	1-249-437-11	CARBON	47K	5%	1/4W (CX450)
R585	1-249-429-11	CARBON	10K	5%	1/4W (CX450)
R591	1-249-425-11	CARBON	4.7K	5%	1/4W F
R592	1-247-807-31	CARBON	100	5%	1/4W
R593	1-247-807-31	CARBON	100	5%	1/4W
R595	1-247-807-31	CARBON	100	5%	1/4W
R801	1-215-433-00	METAL	3.3K	1%	1/4W (CX450)
R802	1-215-431-00	METAL	2.7K	1%	1/4W (CX450)
R803	1-215-433-00	METAL	3.3K	1%	1/4W (CX450)
R804	1-215-431-00	METAL	2.7K	1%	1/4W (CX450)
R805	1-215-433-00	METAL	3.3K	1%	1/4W (CX450)
R806	1-215-431-00	METAL	2.7K	1%	1/4W (CX450)
R807	1-215-414-00	METAL	510	1%	1/4W (CX450)
R808	1-215-414-00	METAL	510	1%	1/4W (CX450)
R809	1-215-414-00	METAL	510	1%	1/4W (CX450)
R810	1-215-429-00	METAL	2.2K	1%	1/4W (CX450)
R811	1-215-429-00	METAL	2.2K	1%	1/4W (CX450)
R812	1-215-445-00	METAL	10K	1%	1/4W (CX450)
R813	1-215-401-11	METAL	150	1%	1/4W (CX450)
R815	1-215-394-00	METAL	75	1%	1/4W (CX450)
R816	1-215-445-00	METAL	10K	1%	1/4W (CX450)
R817	1-215-397-00	METAL	100	1%	1/4W (CX450)
R818	1-215-397-00	METAL	100	1%	1/4W (CX450)
R819	1-215-397-00	METAL	100	1%	1/4W (CX450)
R821	1-215-445-00	METAL	10K	1%	1/4W (CX450)
R823	1-247-903-00	CARBON	1M	5%	1/4W (CX450)
R824	1-215-403-00	METAL	180	1%	1/4W (CX450)
R825	1-215-398-81	METAL	110	1%	1/4W (CX450)
R826	1-215-411-00	METAL	390	1%	1/4W (CX450)

Ref. No.	Part No.	Description			Remarks
R831	1-215-421-00	METAL	1K	1%	1/4W (CX450)
R861	1-215-445-00	METAL	10K	1%	1/4W (CX450:AEP,UK,SP,MY,AUS)
R862	1-215-469-00	METAL	100K	1%	1/4W (CX450:AEP,UK,SP,MY,AUS)
R863	1-215-445-00	METAL	10K	1%	1/4W (CX450:AEP,UK,SP,MY,AUS)
R864	1-215-437-00	METAL	4.7K	1%	1/4W (CX450:AEP,UK,SP,MY,AUS)
R865	1-215-477-00	METAL	220K	1%	1/4W (CX450:AEP,UK,SP,MY,AUS)
R866	1-247-903-00	CARBON	1M	5%	1/4W (CX450:AEP,UK,SP,MY,AUS)
R867	1-215-409-00	METAL	330	1%	1/4W (CX450:AEP,UK,SP,MY,AUS)
R931	1-247-887-00	CARBON	220K	5%	1/4W
R941	1-249-389-11	CARBON	4.7	5%	1/4W F
R942	1-249-387-11	CARBON	3.3	5%	1/4W F
R943	1-249-421-11	CARBON	2.2K	5%	1/4W F
R944	1-249-419-11	CARBON	1.5K	5%	1/4W F
R950	1-249-425-11	CARBON	4.7K	5%	1/4W F
R951	1-249-429-11	CARBON	10K	5%	1/4W
R952	1-249-393-11	CARBON	10	5%	1/4W F
R991	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV501	1-241-765-11	RES, ADJ, CARBON 22K			
		< TEST PIN >			
* TP1	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P			
* TP2	1-566-968-11	HOUSING, CONNECTOR(PC BOARD)6P			
* TP3	1-568-450-11	HOUSING, CONNECTOR(PC BOARD)4P			
		< VIBRATOR >			
X501	1-579-175-11	VIBRATOR, CERAMIC 10MHz			
X580	1-767-938-21	VIBRATOR, CERAMIC 7.28MHz			(CX450)
X801	1-577-663-11	VIBRATOR, CRYSTAL 14.1875MHz			(CX450:AEP,UK,SP,MY,AUS)
X801	1-567-878-11	OSCILLATOR, CRYSTAL 14.31818MHz			(CX450:US,CND)
X861	1-760-500-21	VIBRATOR, CRYSTAL 17.734MHz			(CX450:AEP,UK,SP,MY,AUS)
**********					
	A-4725-051-A	TRANS BOARD, COMPLETE			
		**********			(CX400/CX450:US,CND)
	A-4725-039-A	TRANS BOARD, COMPLETE			
		**********			(CX450:AEP,UK,SP,MY)
	A-4725-034-A	TRANS BOARD, COMPLETE			(CX450:AUS)
		**********			
	7-685-871-01	SCREW+BVTT	3X6 (S)		
		< CAPACITOR >			
C901	1-126-936-11	ELECT	3300uF	20.00% 16V	
C902	1-126-960-11	ELECT	1uF	20.00% 50V	
C911	1-128-576-11	ELECT	100uF	20.00% 63V	
C912	1-126-948-11	ELECT	100uF	20.00% 35V	
C920	1-161-494-00	CERAMIC	0.022uF	25V	

Ref. No.	Part No.	Description			Remarks
C921	1-126-768-11	ELECT	2200uF	20.00% 16V	
C922	1-126-768-11	ELECT	2200uF	20.00% 16V	
C930	1-161-494-00	CERAMIC	0.022uF	25V	
C931	1-126-768-11	ELECT	2200uF	20.00% 16V	
C932	1-126-768-11	ELECT	2200uF	20.00% 16V	
C933	1-126-967-11	ELECT	47uF	20.00% 50V	
C940	1-136-173-00	MYLAR	0.47uF	5.00% 50V	
C941	1-136-173-00	MYLAR	0.47uF	5.00% 50V	
C942	1-109-953-11	ELECT	2.2uF	20.00% 50V	
C943	1-164-159-11	CERAMIC	0.1uF	50V	
C951	1-136-173-00	MYLAR	0.47uF	5.00% 50V	
C961	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C962	1-164-159-11	CERAMIC	0.1uF	50V	
C963	1-164-159-11	CERAMIC	0.1uF	50V	
C971	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C972	1-164-159-11	CERAMIC	0.1uF	50V	
C973	1-164-159-11	CERAMIC	0.1uF	50V	
⚠C991	1-113-925-11	CERAMIC	0.01uF	20.00% 250V	
⚠C992	1-113-924-11	CERAMIC	0.0047uF	20.00% 250V (CX400/CX450:US,CND)	
⚠C993	1-113-924-11	CERAMIC	0.0047uF	20.00% 250V (CX400/CX450:US,CND)	
		< CONNECTOR >			
CN601	1-506-469-11	PIN, CONNECTOR 4P			
* CN602	1-506-469-11	PIN, CONNECTOR 4P			
* CN603	1-568-951-11	PIN, CONNECTOR 2P			
* CN991	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
		< CONNECTOR >			
CNP902	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
		< DIODE >			
D901	8-719-210-21	DIODE 11EQS04-TA2B			
D902	8-719-210-21	DIODE 11EQS04-TA2B			
D903	8-719-210-21	DIODE 11EQS04-TA2B			
D904	8-719-210-21	DIODE 11EQS04-TA2B			
D905	8-719-911-19	DIODE 1SS133T-72			
D906	8-719-911-19	DIODE 1SS133T-72			
D907	8-719-911-19	DIODE 1SS133T-72			
D911	8-719-024-99	DIODE 11ES2-NTA2B			
D912	8-719-150-92	DIODE RD33ES-T2B1			
D913	8-719-109-93	DIODE RD6.2ES-T2B2			
D921	8-719-024-99	DIODE 11ES2-NTA2B			
D922	8-719-024-99	DIODE 11ES2-NTA2B			
D923	8-719-024-99	DIODE 11ES2-NTA2B			
D924	8-719-024-99	DIODE 11ES2-NTA2B			
D931	8-719-200-77	DIODE 10E2N-TA2B			
D932	8-719-200-77	DIODE 10E2N-TA2B			
D933	8-719-200-77	DIODE 10E2N-TA2B			
D934	8-719-200-77	DIODE 10E2N-TA2B			
D935	8-719-110-41	DIODE RD15ES-T2B2			
⚠D991	8-719-911-19	DIODE 1SS133T-72			
		< IC >			
IC941	8-759-822-38	IC LA6510			
IC961	8-759-822-38	IC LA6510			

Ref. No.	Part No.	Description			Remarks
		< COIL >			
⚠L991	1-424-485-11	FILTER, LINE			
		< TRANSISTOR >			
Q901	8-729-620-05	TRANSISTOR	2SC2603TP-EF		
Q911	8-729-140-97	TRANSISTOR	2SB734-T-34		
Q931	8-729-620-05	TRANSISTOR	2SC2603TP-EF		
Q941	8-729-900-65	TRANSISTOR	BN1L4M-TP		
Q942	8-729-900-89	TRANSISTOR	BA1L4M-TP		
Q951	8-729-900-65	TRANSISTOR	BN1L4M-T		
Q952	8-729-900-89	TRANSISTOR	BA1L4M-TP		
		< RESISTOR >			
R901	1-249-417-11	CARBON	1K	5% 1/4W F	
R902	1-249-429-11	CARBON	10K	5% 1/4W	
R903	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R904	1-249-429-11	CARBON	10K	5% 1/4W	
R911	1-247-843-11	CARBON	3.3K	5% 1/4W	
R912	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R913	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R914	1-247-807-31	CARBON	100	5% 1/4W	
R931	1-249-419-11	CARBON	1.5K	5% 1/4W F	
R932	1-249-419-11	CARBON	1.5K	5% 1/4W F	
R940	1-247-807-31	CARBON	100	5% 1/4W	
R941	1-247-807-31	CARBON	100	5% 1/4W	
R942	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R943	1-249-441-11	CARBON	100K	5% 1/4W	
R944	1-249-417-11	CARBON	1K	5% 1/4W F	
R945	1-249-441-11	CARBON	100K	5% 1/4W	
R946	1-247-883-00	CARBON	150K	5% 1/4W	
R947	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R948	1-249-382-11	CARBON	1.2	5% 1/6W F	
R949	1-249-382-11	CARBON	1.2	5% 1/6W F	
R951	1-247-807-31	CARBON	100	5% 1/4W	
R952	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R953	1-249-441-11	CARBON	100K	5% 1/4W	
R954	1-249-417-11	CARBON	1K	5% 1/4W F	
R955	1-249-441-11	CARBON	100K	5% 1/4W	
R956	1-247-883-00	CARBON	150K	5% 1/4W	
R957	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R958	1-249-382-11	CARBON	1.2	5% 1/6W F	
R959	1-249-382-11	CARBON	1.2	5% 1/6W F	
R961	1-247-883-00	CARBON	150K	5% 1/4W	
R962	1-247-860-11	CARBON	16K	5% 1/4W	
R963	1-247-883-00	CARBON	150K	5% 1/4W	
R964	1-247-883-00	CARBON	150K	5% 1/4W	
R965	1-249-431-11	CARBON	15K	5% 1/4W	
R966	1-249-382-11	CARBON	1.2	5% 1/6W F	
R967	1-249-382-11	CARBON	1.2	5% 1/6W F	
R968	1-249-393-11	CARBON	10	5% 1/4W F	
R971	1-247-883-00	CARBON	150K	5% 1/4W	
R972	1-247-860-11	CARBON	16K	5% 1/4W	
R973	1-247-885-00	CARBON	180K	5% 1/4W	
R974	1-247-885-00	CARBON	180K	5% 1/4W	
R975	1-249-431-11	CARBON	15K	5% 1/4W	
R976	1-249-382-11	CARBON	1.2	5% 1/6W F	
R977	1-249-382-11	CARBON	1.2	5% 1/6W F	
R978	1-249-393-11	CARBON	10	5% 1/4W F	

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TRANS **T.SENS**

Ref. No.	Part No.	Description	Remarks
		< RELAY >	
⚠RY991	1-755-299-11	RELAY	
		< TRANSFORMER >	
⚠T901	1-433-666-11	TRANSFORMER, POWER (CX400/CX450:US,CND)	
⚠T901	1-433-668-11	TRANSFORMER, POWER (CX450:AEP,UK,SP,MY)	
⚠T901	1-433-877-11	TRANSFORMER, POWER (CX450:AUS)	
⚠T911	1-435-327-11	TRANSFORMER, POWER (CX400/CX450:US,CND)	
⚠T911	1-435-328-11	TRANSFORMER, POWER (CX450:AEP,UK,SP,MY,AUS)	
**********			
	1-676-828-11	T.SENS BOARD	
		**********	
		< CONNECTOR >	
* CN81	1-506-486-11	PIN, CONNECTOR 7P	
CN82	1-506-481-11	PIN, CONNECTOR 2P	
CN83	1-506-481-11	PIN, CONNECTOR 2P	
		< IC >	
IC81	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
IC82	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
IC83	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
IC84	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
		< RESISTOR >	
R81	1-249-416-11	CARBON 820 5% 1/4W F	
R82	1-249-416-11	CARBON 820 5% 1/4W F	
R83	1-249-416-11	CARBON 820 5% 1/4W F	
R84	1-249-416-11	CARBON 820 5% 1/4W F	
R85	1-249-415-11	CARBON 680 5% 1/4W F	
**********			
		MISCELLANEOUS	
		**********	
4	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (CX400/CX450:US,CND)	
5	1-792-466-11	WIRE(FLAT TYPE) (23 CORE)	
11	1-569-008-21	ADAPTOR, CONVERSION (CX450:SP,MY)	
11	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (CX450:UK)	
108	1-792-465-11	WIRE (FLAT TYPE) (15 CORE)	
⚠268	8-820-026-03	OPTICAL PICK-UP BLOCK KSM-213BFN	
271	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
⚠CNP901	1-696-845-11	CORD, POWER (CX450:AUS)	
⚠CNP901	1-777-071-31	CORD, POWER (CX450:AEP,UK,SP,MY)	
⚠CNP901	1-783-531-41	CORD, POWER (CX400/CX450:US,CND)	
M601	1-541-309-11	MOTOR, L (RF-370C)(TABLE)	
M602	1-541-309-11	MOTOR, L (RF-370C)(LOADING)	
M603	1-541-632-11	MOTOR, DC (DOOR)	
⚠T901	1-433-666-11	TRANSFORMER, POWER (CX400/CX450:US,CND)	
⚠T901	1-433-668-11	TRANSFORMER, POWER (CX450:AEP,UK,SP,MY)	
⚠T901	1-433-877-11	TRANSFORMER, POWER (CX450:AUS)	
⚠T911	1-435-327-11	TRANSFORMER, POWER (CX400/CX450:US,CND)	
⚠T911	1-435-328-11	TRANSFORMER, POWER (CX450:AEP,UK,SP,MY,AUS)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
#3	7-685-648-79	SCREW, TAPPING	
#4	7-685-903-11	SCREW +PTPWH 3X6 (TYPE2)	
#5	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
#6	7-624-106-04	STOPRING 3.0, TYPE -E	
#7	7-682-948-01	SCREW +PSW 3X8	
**********			
		ACCESSORIES	
		**********	
	1-418-828-11	REMOTECOMMANDER (RM-DX400) (CX400)	
	1-418-829-11	REMOTECOMMANDER (RM-DX450) (CX450)	
	1-551-734-11	CORD,CONNECTION (RK-74A)	
	1-558-271-11	CORD,CONNECTION (RK-601)	
	1-751-619-11	CORD,CONNECTION (VIDEO)(CX450)	
	1-776-263-11	CORD,CONNECTION (AUDIO)	
	1-777-172-11	CORD,CONNECTION (CONTOROL A1) (CX400:CND/CX450:CND)	
	3-866-363-23	MANUAL, INSTRUCTION (ENGILISH/FRENCH) (CX450:AEP)	
	3-866-670-11	MANUAL,COMMONNESS INSTRUCTION (CONTROL A1II)(ENGLISH) (CX400:US/CX450:US,UK,AUS)	
	3-866-670-21	MANUAL,COMMONNESS INSTRUCTION (CONTROL A1II)(ENGILSH/FRENCH/GERMAN/SPANISH/DUTCH/PORTUGUESE/SWEDISH/ITALIAN/CHINESE)(CX400:CND/CX450:CND,AEP,SP,MY)	
	4-210-990-01	LID(RM-LJ301), BATTERY CASE (FOR RM-DX450)(CX450)	
	4-229-365-11	MANUAL, INSTRUCTION (ENGKISH)(CX400)	
	4-229-365-21	MANUAL, INSTRUCTION (FRENCH) (CX400:CND)	
	4-229-367-11	MANUAL, INSTRUCTION (ENGLISH) (CX450:US,AUS)	
	4-229-367-21	MANUAL, INSTRUCTION (ENGLISH/FRENCH) (CX450:CND,AEP,UK,SP,MY)	
	4-229-367-31	MANUAL, INSTRUCTION (SPANISH/GERMAN/DUTCH)(CX450:AEP)	
	4-229-367-41	MANUAL, INSTRUCTION (SWEDISH/ITALIAN/PORTUGUESE)(CX450:AEP)	
	4-229-367-51	MANUAL, INSTRUCTION (SPANISH/CHINESE)(CX450:SP,MY)	
	4-981-643-01	COVER,BATTERY (FOR RM-DX400)(CX400)	

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MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.1	2001.10	Correction of Part No. for IC 501 (RPC-01002)
1.0	2000.04	New